



EMERGENCY
COMMUNICATIONS
PUBLIC SERVICE
EXPERIMENTATION
INFORMATION
EDUCATION



ARRL affiliated
Club # 2047

Emergency Communications
for:

COUNTY OF
CUYAHOGA



Div. of
Emergency Assistance & Planning

P.O. Box 30529
Cleveland, Ohio 44130

A not for profit Ohio corporation, tax-exempt under IRS Code 501(c)(3).

CODE PRACTICE
SUNDAYS 8 PM
145.29
6,9,13,16,20 & 24
W.P.M.

North Coast Communicator

INFORMAL NETS
SUNDAYS 9 PM
145.29
WEDNESDAYS 7 PM
3.870 +/-10

MARCH / APRIL 1986

- Board Meeting Notice Sunday March 16, 86 at 1:30 pm
Location: Glenn Christman WD8OMW's QTH, 2311 Searsdale Ave.
Cleveland, Ohio.
- General Meeting Notice Thursday April 3, 86 at 7:30 pm
N. Olmsted Br. of Cuyahoga County Library (See Map)
Program: National Weather Service, SKYWARN presented by Marvin Miller, Area
Manager for the NWS facility at the Cleveland Hopkins Int'l Airport.
- Board Meeting Notice Sunday April 13, 86 at 1:30 pm
Location: Glenn Christman WD8OMW's QTH, 2311 Searsdale Ave.
Cleveland, Ohio.
- General Meeting Notice Thursday May 1, 86 at 7:30 pm
N. Olmsted Br. of Cuyahoga County Library (See Map)
Program: Amateur Radio Emergency Service - Larry Solak SEC ARES.

TORNADO DRILL, WEDNESDAY APRIL 9, 1986 at 1010 AM

North Coast will aid the County of Cuyahoga, Division of Emergency Assistance and Planning in obtaining information from various schools that participated with the tornado drill exercise. If you can assist on that Wednesday morning with communications, please contact Rick K8SCI at 779-8999 to volunteer.

NEW NORTH COAST MEMBERS

Help give a warm welcome to the following new members since the last Communicator: AE8C Si, W8CEM Chuck, KE8CT Pete, N8DAD Barb, W8EPM Joe, WA8GZC Marion, KR0J Jeff, KA8SYT John, KA8UUX Dick, KA8WQN Evelyn, KA8YEA Eileen, KA8YHR Rob and KA8YQM Maryann.

NORTH COAST SPONSORS CPR CLASS - APRIL 23

North Coast Amateur Radio Club, with the cooperation of the American Heart Association, is sponsoring a CPR course which at its completion, successful participants will receive CPR certification from the American Heart Association. This course will be instructed by Ted and Lois Thomas who have conducted many such courses for the American Heart Association. The class requires two Wednesday evenings (April 23 and April 30) from 6:30 PM to 10:00 PM. The location is the Middleburg Heights Br. of the Cuyahoga County Public Library located on Bagley Road at Big Creek Parkway (between Pearl Road and I-71). Cost is \$5.00 total. Space is limited to 15 so please register early by calling Glenn Christman at: 661-3656 (Res), or 248-1800 extension 1273 (work) during the day.

MINUTES OF THE 01/26/86 TRUSTEES' MEETING

The meeting was called to order at 1510 hours by Rick (K8SCI).

In attendance were Rick (K8SCI), Bob (K8TTZ), Steve (NO8M), Dave (K88TT), Dick (W8ISB), Dirk (NO8N), Tim (K8VIC), Tom (N8ETP), Shirley (K8BY), Mike (K9SSL), Pauline (K8FOE) and Ed (KD8ZK). Dave (N8ETY) attended as a guest.

Fliers for the upcoming club-sponsored amateur exam are being distributed. Rick's telephone number has been placed on the flier due to Shirley's upcoming move to a new home.

On a motion from Steve, it was resolved that the minutes of the Trustee's meetings, the regular Club meetings and the minutes or a synopsis of each committee meeting shall be published in the Communicator.

It was determined that the winner must be present in order to obtain prizes given at the regular Club meetings.

NCARES will be voted upon at the next regular Club meeting. On a motion from Steve, it was resolved to establish an NCARES committee within the NCARC, assuming the NCARES/EAP issue is accepted by the membership.

Discussion ensued on the need for Trustee affirmation for positions which are not under a committee structure. It was felt that these individual positions did need affirmation. On a motion from Steve, a Finance Committee was formed within the NCARC. Responsibilities will include recommendations relating to budget, fundraising, expenditures and items relating to the financial matters of the club. On a motion from Steve, a Technical Committee was established to be responsible for recommendations regarding equipment needs, repair and other technical matters. On a motion from Steve, the position of Public Relations Representative was established. On a motion from Steve, the position of Membership Representative was established. On a motion from Steve, a position of Program Representative was established. On a motion from Steve, the position of Awards and Recognition Representative, Field Day Representative, Education Representative, Contest Representative, Door Prizes/Refreshment Representative, Net Activity Representative, Special Event Representative, Sunshine Representative, Volunteer Examination Representative and Club ARRL Representative were all established.

The need for the involvement of members was discussed. Soliciting the needed help and types of appeals that need to be made was discussed.

A North Coast Survey designed by Dave (N8ETY) was discussed. It was resolved, on a motion from Steve (NO8M), that the Trustees support a revised survey written and analyzed by Dave.

With the anticipated arrival of tax-exempt status, NCARC will be able to obtain a bulk rate permit. A request will then be made for the expenditure of funds to obtain this permit. There was no objection.

Steve (NO8M) made a motion to support the publication of a monthly Communicator (if there is help to do it). This motion passed. Discussion followed on the size and content of the Communicator.

A question of the printing of the Treasurer's report in the Communicator was made. There was no wish to do that.

On a motion from Dirk (NO8N), it was resolved to open a checking account at a financial institution and give the President or Treasurer the authority to write checks up to \$100.00 and that checks exceeding \$100.00 require the signature of the President or Treasurer and one other Trustee.

The jammer was discussed.

Dirk (NO8N) reported that a quote for liability insurance from GFN was received. The costs are \$143.00 for \$500,000.00 coverage and \$1,000,000.00 coverage would cost \$160.00.

Dirk (NO8N) reported that the World Radio publication offers a club a number of benefits for \$52.00 per year. Among the benefits are a listing in their club column, for 12 SASEs they will send a list of new amateurs in our area each month and nine subscriptions for prizes. On a motion from Dirk, it was resolved that we take advantage of this World Radio offer and authorize the expenditure of the \$52.00.

Concerns of the use of telephone polls to make Trustee decisions was discussed.

On a motion from Bob (K8TTZ), it was resolved that the Trustees have a monthly Trustee meeting prior to the regular club meeting.

Rick (K8SCI) asked that if NCARES is approved, the EAP label be put on the letterhead and the newsletter. There was no objection.

Rick (K8SCI) requested \$50.00 be forwarded to Westlink as a donation for the use of their telephone reports. This was referred to the Finance Committee.

Dave (N8ETY) has volunteered to chair the Finance Committee.

Steve (NO8M) stated that he wished to open a line of friendly communication with the 5.29 group in Canada.

Dave (N8ETY) requested that the Club consider the ten meter FM repeater and shuttle audio broadcast project be affiliated with North Coast. Both systems would be owned and controlled solely by Dave. This question was held to the next Trustee meeting.

Dave (K88TT) will assist with or take the Contest Representative position. Dirk is looking for a leader for the theory part of the Novice Code and Theory classes.

The meeting was adjourned at 1805.

MINUTES OF THE 02/06/86 GENERAL MEETING

CALL TO ORDER - The President called the meeting to order at 1935 hours.

ROLL CALL - There were seven Trustees, 28 members and six guests present.

MINUTES - The minutes of the previous general meeting were approved as published in the Communicator.

TREASURER'S REPORT - Bob (KBTTZ) read the Treasurer's report.

TAX EXEMPT STATUS - Dirk (NOBN) reported that the IRS received the application and that we have our employer ID number. This number is assigned to every group whether they have employees or not. We should receive a reply on the application during the beginning of March.

VE EXAMS - Rick (KBSCI) reported that fliers are available on the upcoming examinations. A request was made that those members who are ARRL accredited VEs and not coordinated with Shirley to contact her.

FIELD DAY - Rick (KBSCI) reported there is a sign-up sheet for Field Day planning help.

CONTESTS - Rick (KBSCI) reported that John (WDBIQJ) has released his Contest Representative position. Dave (KB8TT) has taken this position. Dave is compiling information on this function.

TRAINING - Dirk (NOBN) announced the Novice Code and Theory Course which will be held. Fliers were available. He asked for assistance with the teaching of the theory and publicity of the course.

UNFINISHED BUSINESS

INSURANCE - Dirk (NOBN) reported that the ARRL insurance carriers have significant limitations. The Club is now covered by GFN insurance and the policy has been received.

NCARES - Rick (KBSCI) reported the NCARES plan draft has been in the Communicator. On a motion made by WDBISB, it was resolved that the Club support the draft of the NCARES plan and to support the Cuyahoga County Division of Emergency Assistance and Planning. Changes were made to the frequency lists as shown in the draft published in the Communicator.

NEW BUSINESS

AWARDS - Fred (WB8UDA), Awards and Recognition Representative, requested four volunteers to assist him in this function. Member of the year awards, youth awards, past president awards and certificates of achievement will be considered. The Board of Trustees would have final word on the awards. Costs are not anticipated as being high.

PUBLICITY - Tom (N8ETP) reported that he observed some kind words about our code practice and informal net on the 146.82 repeater during a swap and shop.

INTRODUCTIONS - Chuck (K8RSH) suggested introductions be made. This was done later in the meeting.

OPERATING GUIDE - Dirk (NOBN) is in the process of putting together a guide on everything you wanted to know about 2 meter FM for newer operators. He would like input.

CLUB GUIDE - Steve (WDBINO) has a publication about ten tips for a better club.

FCC INPUT - Dirk (NOBN) reported that on hamnet (a Compuserve SIG for hams) a bulletin reported the FCC desires input from ham operators and groups other than the ARRL. He recommends we appoint a representative from the club to report on FCC actions. Sources of information were discussed.

PUBLICITY - Steve (NOBN) reported a letter was sent to the Canadian 5.29 Trustee with an overview of our Club. It is hoped an avenue of communications can be opened. This letter did NOT deal with interference. Interference problems were discussed.

PROGRAM OFFER - Fred (WB8UDA) offered a law-enforcement speed-radar presentation and inquired on interest. Many expressed interest for this program.

RULES OF ORDER - Charlie (N8BO) has compiled some published rules for parliamentary procedure and made copies available.

REQUEST FOR VOLUNTEERS - Rick (KBSCI) requested a Chairman for NCARES. With no volunteers, he reported he would volunteer to fill that position. A sign-in sheet was made available for NCARES or interested persons may call Rick. NCARES will further develop the existing plan.

CEL-TEL - Charlie (N8BO) commented on the CEL-TEL bill and discussion followed.

ANNOUNCEMENTS

BOY SCOUT EXPO - Linn Shaw (WABSDP) announced his needs.

INTRODUCTIONS - Introductions were made.

SUNSHINE - Fred (WB8UDA) reported that the father of Russ (WB8UPA) has passed away.

COMMUNICATOR - Rick (KBSCI) reported the deadline for the Communicator is March 10. The Communicator may start monthly publication in April.

FOX-HUNT - The upcoming fox hunt was announced.

MADISON HAMFEST - Ron (N8FCX) has tickets for the Madison hamfest.

ADJOURNEMENT - The meeting was adjourned at 2042 hours.

PRIZES - Fred (WB8UDA), Bob (WBIO) and Chuck (WBCEM) won the door prizes. The 50-50 raffle was won by Pauline (KB8FOE)

PROGRAM - Tom (KB8CI) presented a program on packet radio.

SUMMARY OF THE 02/20/86 NCARES MEETING

The meeting was attended by Bob (NBFT), Dirk (NOBN), Rick (KBSCI) and Steve (NOBM). The main topic of discussion centered on the need for communication with EAP Headquarters and the procedures for activation. There is a need for expansion of the 5.29 repeater to county-wide coverage. In short, the Technical Committee was given a load of work!

MINUTES OF THE 02/23/86 TRUSTEES MEETING

The meeting was called to order by Rick (KBSCI) at 1509 hours. In attendance were Dick (WD8ISB), Shirley (KABY), Mike (K9SSL), Tom (NBETP), Dirk (NOBN), Rick (KBSCI) and Steve (NOBM). Visiting were Larry (K8WRZ) and his wife, Michelle.

EDUCATION - Dirk (NOBN) reported on the progress on the Novice Code and Theory Course. Costs to the student will be \$10.00 plus supplies. Instructors will be reimbursed \$25.00 (\$15.00 for materials and \$10.00 for ongoing expenses). In addition a \$10.00 deposit was paid by Dirk to the ARRL for a Novice Slide Set. On a motion from Dirk, it was resolved that costs incurred by the instructors are to be repaid by the club and the revenue from the class will inure to the club. Materials from the course will remain with the instructors after the class. Dirk will be soliciting Elmers for the students from the general membership. On a motion from Dirk, it was resolved that a student who successfully completes the class and passes a license examination will receive a 12 month free membership to the North Coast Amateur Radio Club. Shirley (KABY) reported she is working on beginning classes on the East side of the County for Novice, Technician and General class licenses. On a motion from Shirley (KABY), it was resolved to have classes on the east side as well as the west. Dirk motioned to reconsider the previous motion dealing with reimbursement. The motion was reworded to read: Classes and the costs of the classes to be held by the NCARC are to be approved by the Trustees and the instructors are to be reimbursed for approved course material.

VOLUNTEER EXAMINATIONS - Shirley (KABY) reported 16 persons who attended the VE Examinations took a test, 19 elements were given and 15 of the elements were passed successfully. Of the 16 who took tests, 11 received upgrades or new licenses. Comments and reports from the examinations indicated an outstanding effort made by the examination team headed by Shirley (KABY).

FIELD DAY - Shirley (KABY) reported a site has been obtained on Harvard and Green Road, on property belonging to the City of Cleveland.

NCARES - Rick (KBSCI) reported the committee met and discussed repeater coverage. A request to the Technical Committee will be made to study and develop a repeater system to provide handheld, county-wide coverage. Other subjects which are being worked on are a tone-alert system, antennas at EAP headquarters and two-meter frequency coordination. Possible equipment acquisitions are being investigated.

TAX EXEMPT - Dirk (NOBN) reported we are exempt under 501(c)(3). Papers will have to be filed at various times and the responsibilities for this filing were discussed.

POSTAL RATES - Dirk (NOBN) reported we can get special bulk third class rates. We need to file an application with each post office in which we intend to deposit mail. The cost is \$50.00 per year. Costs will be recovered in three mailings. Rick asked that the club purchase an imprint stamp for \$50.00 to keep from having to stamp each piece of mail. The need for an announcement about the switch from first to third class postage was discussed due to potential delivery problems.

AFFILIATION - The Trustees discussed forms of affiliation for members who were active in projects and wished to be listed as being somewhat affiliated. Dirk (NOBN) moved the club not list or represent affiliation to other than official club activities.

LOGO - A sample of a possible new Club logo was brought by Steve (NOBM). This was discussed and will be presented again at a later meeting.

MEETING LOCATIONS - The need for a more centralized general meeting location was discussed. This will be brought up at a general meeting and in the Communicator.

FOXHUNT FUNDS - Dirk (NOBN) moved that the dollar per hunter be deleted. There was no second. On a motion from Steve (NOBM) it was resolved that the foxhunters set their own costs for participation in the hunts.

220 REPEATER - Steve (NOBM) requested the Club be willing to accept, as an NCARC repeater, a 220 repeater for the purpose of services to the Novice community should they obtain 220 privileges. No action was taken.

Dirk moved we adjourn at 1726 hours.

MINUTES OF THE 03/06/86 GENERAL MEETING

CALL TO ORDER - The President called the meeting to order at 1933 hours.

ROLL CALL - There were eight Trustees, 24 members and four guests present.

MINUTES - Due to the Secretary oversleeping prior to this meeting, minutes which were to be approved were not available. At the next Trustee meeting, policies relating to the approval of minutes will be discussed.

TREASURER'S REPORT - The Treasurer read the report.

TAX EXEMPT STATUS - Dirk (N08N) reported that we received a favorable ruling from the IRS and are now exempt. Donations made to the club are now tax deductible. Dues are not considered to be a donation and are not deductible. Another determination will be made at a later date with respect to whether the club is a private foundation or publicly supported. It appears the club will try third class bulk rate mailing for the newsletter. It was announced that mailing delays and complaints are possible. Should the experiment show too many problems involved with third class mail, the club may then agree to return to first class mailings. The club is also exempt from Ohio sales tax and Glenn (WD8OMW) can provide information and the form needed for club purchases made tax-free.

VE EXAMS - Dirk (N08N) reported that 16 persons were tested and 12 received licenses or upgrades. The next VE tests are scheduled for May 10 at 1000 hours at the North Olmsted High School.

FIELD DAY - Rick (K8SCI) reported that a site has been found. A volunteer sign-up page will be included in the next newsletter which will include a section relating to help for this contest.

EDUCATION - Dirk (N08N) reported that the Novice Class Code and Theory Course has begun with an attendance to be about 25 persons. The Trustees have voted to provide 12 months free club membership for persons who receive a license or upgrade through club-sponsored classes. There is a need for club members' assistance in acting as Elmers for the students. Those who could help were asked to call Glen (WD8OMW). Jeff (KROJ) suggested the club pursue novice activities.

NCARES - Rick (K8SCI) reported that the committee discussed the need for expanded coverage of the repeater. This subject will be discussed at the next Technical Committee meeting.

CEL-TEL - Dirk (N08N) made a Compuserve Hamnet update on HR 3378 available.

TORNADO DRILL - The EAP is requesting assistance with gathering information on the participation in a tornado drill on April 9. Persons who may be able to volunteer should call Rick (K8SCI).

MOCK DISASTER AT PERRY - NCARES will be involved in relaying information to the EAP during the upcoming Perry Nuclear Power Plant Mock Disaster. NCARES will not be directly involved in this exercise.

FOXHUNT - The March 9 foxhunt was announced. Interference, which seems to have lessened on 5.29, is still a problem on other repeaters. It is possible that the Interference Committee may be used to address this ongoing problem.

INTRODUCTIONS - Introductions were made.

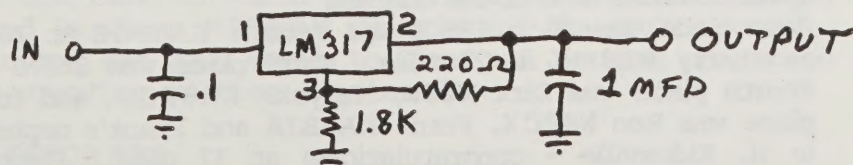
PRIZES - Nan (KA8DGO), Larry (W8KGA) and John (N8GNL) won the door prizes. The 50-50 raffle was won by George (K8WNE).

ADJOURNMENT - On the motion of Bob (K8TTZ), the meeting was adjourned.

PROGRAM - Al (AB8P) presented a program on the ARRL.

UPDATE ON THE DOPPLESCANT ANTENNA ARTICLE

The article appeared in the NOV/DEC 85 issue of the Communicator. C1 & C2 shown on the schematic as .001 should be .01 which was shown correctly for C1 & C2 on the parts list. On the schematic was also a 7812 voltage regulator, the voltage regulator should be a 7810 and was marked that way on the parts list. If you cannot find a 7810, suggest using a LM317 wired as follows:



Also to clarify cable connections A1 thru A8 on the antenna board, the antenna board supplied by Circuit Board Specialist are number incorrectly - reverse the order of A1 thru A8 on either the antenna board (or the control board) for one end of that cable (not both ends of the cable).

UPCOMING HAMFEST AND CONVENTIONS

- March 16 - Sunday. Toledo Mobile Radio Association 31st Annual Ham Fest and Computer Show
Lucas County Recreation Center, Key Street, Maumee, OH 8 am to 5 pm.
Exit 4 of the Ohio Turnpike. Talk-in on 147.87/27 and 146.52.
- March 23 - Sunday. Lake County Hamfest at the Madison High School, Madison, OH
8 am to 4 pm. Talk-in and check-in on 147.81/21.
- April 25-27- Friday, Saturday and Sunday. Dayton Hamvention, Hara Arena and Exhibition
Center, Dayton, OH. Hamvention Information: (513) 433-7720. Exhibits and Flea
Market open at noon Friday and 0800 on Saturday and Sunday. Banquet is
Saturday evening. Have a safe trip to and from Dayton.
- May 11 - Sunday. Medina County Hamfest at the Medina County Community Center
Lafayette Road, Medina, Ohio. Sponsored by the Medina 2 Meter Group, Inc.
8 am to 2 pm. Talk-in on 147.63/03
- May 18 - Sunday. Portage Hamfair for Radio Amateurs & Computer Hobbyists. Sponsored
by the Portage Amateur Radio Club. 7:30 am to 4:00 pm at the Randolph
Fairgrounds, Randolph, OH (Route 44 South of Ravenna). Check-in & info 145.39.

NORTH COAST VE EXAM SCHEDULED FOR MAY 10 AT NORTH OLMSTED, OH

Saturday, May 10, 1:00 pm at the North Olmsted High School, 5755 Burns Rd., N. Olmsted, OH.
All amateur radio elements: Novice, Technician, General, Advanced and Extra. For more
information, see the enclosed flyer in this issue of the Communicator.

NORTH COAST PLANNING CODE & THEORY CLASSES IN THE SOUTHEASTERN AREA

Shirley KA8Y, Dick WD8ISB and Charlie KA8EVS are currently developing plans to offer Novice,
Technician and General code and theory classes. The location and starting date have not been
set as of this time, but additional information will be aired on the North Coast Informal Nets on
2 meters (Sunday 9 pm) and the 75 meter net (Wednesday 7 pm). If you are interested in helping
with these plans, please contact: Shirley at 467-5745, or Dick at 467-7733.

FOX HUNT REPORT - FEBRUARY 8

The fox (Rick K8SCI) picked a spot west of Rocky Rive Dr. that overlooked the eastern side of
the Metro-Park valley (between Lorain and Hilliard Roads). Using a mobile running 20 watts
into a G-7 Vertical antenna (16 feet long and 8 feet off the ground) put quite a strong signal
many places (especially into the valley) making it interesting trying to find him. John K8RPZ /
Larry KA8WRZ / Glenn WD8OMW came in first at 39 minutes into the hunt, Steve NO8M / XYL
Mary 2nd in 65 minutes, Frank KA8BJA / Ron N8FCX 3rd in 90 minutes and Ray WD8MHL /
XYL Carol 4th in 120+ minutes. Unfortunately, Dirk NO8N / XYL Maryann KA8YQM / Guest
had to pull out within a few minutes of finding the fox due to one of the guest in their car
came down with car sickness. Much enjoyment was had by all involved. Good conversation, as
well as food, was in store for all that attended the meeting afterwards at Frankies Pizza (Great
Northern Blvd).

FOX HUNT REPORT - MARCH 8

The fox hunt commenced at 7:01 PM. The fox (John K8RZP) was hiding at Woodmere Park in
Berea, Ohio. He was using a 3 element Quad and was reflecting the signal off the Berea water
tower in order to fool the hunters.

First place was Rick K8SCI and Pauline KA8FOE at 18 mins. Second place was Ron KC8QN
and Larry WB8PHI at 27 mins. Third place was Steve NO8M and his wife Mary at 28 mins.
Fourth place was Dirk NO8N, Maryann KA8YQM, and friend Walt Kenamer at 30 mins. Fifth
place was Ron N8FCX, Frank KA8BJA and Frank's nephew Bob (who just passed his Novic exam
in N. Ridgeville - congratulations) at 32 mins. Sixth place was Larry KA8WRZ and Rob
KA8YHR at 59 mins. And last, but not least, in seventh place was Dave N8ETY and Tom N8ETP
who finished up the hunt at 67 mins (its a tough job, but somebody has to do it). Everyone had
a good time, all hunters did find the fox... Everyone enjoyed good food and conversation at
Frankies Pizza afterwards. Come join in on the fun next month on April 12.

OUR DEEPEST CONDOLENCES

To Mr and Mrs Steve Wolf NO8M and family on the loss of his mother in February.

To Mr and Mrs Ed Zorn KD8ZK and family on the loss of her father in February.

To Mr and Mrs Tom Kopcak N8ETP and family on the loss of her grandmother this month.

NORTH COAST VE EXAM FEBRUARY 22, 86 in MAPLE HEIGHTS, OHIO.

The VE exam was organized and headed by Shirley KA8Y. Other VE personnel assisting were Dan KB8A, Dirk NO8N and Ron WA8FZU. Charlie Stien KA8EVS aided during the examination period as a much needed helper. Reports heard indicated that these individuals did an outstanding effort in making everyone feel comfortable and were well organized. 16 individuals took 19 elements of which 15 of those elements received a passing grade. Congratulations to all that upgraded, as well as those that participated in this exam.

CONGRATULATIONS - NORTH COAST MEMBERS WHO RECENTLY UPGRADED

Rol K8ATQ to Extra, Diane N8CAY to Advanced and received a new call KE8DJ, Dick WD8ISB to Extra, Larry KA8WRZ to Technician, Rob KA8YHR to Technician and Maryann KA8YQM to Technician.

FOR SALE OR TRADE - SWAN 350C HF TRANSCEIVER

The Swan 350C is with Power Supply, Speaker and high impedance mike. \$200, best offer or will consider swap for a programable scanner contact Larry Tews KA8WRZ at 476-8164

BOY SCOUT EXPO, GREAT NORTHERN MALL on FEB 8

HF SSB operations included the 75, 40, 20, and 10 meter bands, 2 meters had FM voice contacts as well as RTTY operations (for MSO messages). Including the set up on Friday evening, the following hams helped with set-up, operating, discussing amateur radio with Scouts and the public, provided equipment, and tear-down of the facilities (sorry if anyone was missed): Dick KD8EQ, Steve N8GNJ, Steve WD8INO, Al WD8JMM, Chuck W8LEM, Dirk NO8N, Glenn WD8OMW, Norm W8PJ, Chuck K8RSH, John K8RZP, Rick K8SCI, Lin WD8SDP, Bob K8TTZ and Tim KA8VIC. Many thanks to all in bringing amateur radio directly into the mall.

PERRY NUCLEAR POWER PLANT DRILL, TUESDAY APRIL 15, 1986

North Coast will aid the County of Cuyahoga, Division of Emergency Assistance and Planning in obtaining information and monitoring various stages of a full emergency drill exercise for the nuclear power plant located in Lake County.

FIELD DAY, NCARES AND EDUCATION PARTICIPATION VOLUNTEER FORMS ENCLOSED

Now is the time for you to consider volunteering in these areas... Handy forms have been enclosed within this issue of the Communicator. Please mail these as soon as possible back to the clubs PO Box. If you would like more information regarding these areas, please contact the following individuals: Field Day: Shirley KA8Y at 467-5745 - NCARES: Rick K8SCI at 779,8999 - EDUCATION: Dirk NO8N at 238-2807 or Glenn WD8OMW at 661-3656.

NORTH COAST NOVICE CLASSES STARTED MARCH 4TH AT NORTH OLMSTED HIGH SCHOOL

On March 4th, 19 new potential hams started their Novice code and theory studies. Several additional individuals will be added to that class on March 11th. These classes were arranged by Dirk NO8N and are being instructed by Glenn WD8OMW (theory) and Jim N8GJR (code). Good luck to all of those taking the course, and many thanks to Glenn and Jim (and others who may help from time to time) for giving your time so others may benefit.

WANTED - A 2000 VOLT, 500 ma TRANSFORMER

John Pastor K8RZP needs a transformer for his high-voltage power supply that he uses on the HF bands. If you have one that is available, please call John at 234-4299.

WESTPARK RADIOPS ANNUAL BANQUET

Westpark Radiops has invited any interested person to attend their annual banquet which will be held on Saturday, April 19. The location is "The Orchard Inn, 24611 Royalton Road (Rt 82), Columbia Station, Ohio (about 1/4 mile east of Columbia Road and Route 82.

Happy hour begins at 6 PM with mixers provided (B.Y.O.B.). Buffet dinner is served at 7 PM which consist of roast beef, turkey breast, lasagna, baked potato, peas & pearl onions, tossed salad and dessert of cake or cookies and ice cream.

This years speaker is Art Ellis W8PBO from Utica, Michigan. Art is a Biology teacher and an avid DX chaser. Art has a very interesting presentation on a combination Biological and DX expedition to the Galapagos Islands. The expedition had occureed buring the October 1985 CQ DX Worldwide contest. Art's presentation will include slides and a video display showing many of the biological wonders of that area.

The deadline to order tickets is Thursday April 10. Cost is \$12.25 per person. Make checks payable to the "Westpark Radiops" and send to: Dan Wadsworth WD8AJF, 11028 Hawke Road, Columbia Station, OH 44028.

NEXT NORTH COAST FOX HUNT IS APRIL 12, 1986

The North Coast fox hunts are held the second Saturday of each month. Hunters meet at the rear of the North Olmsted Br. of the Cuyahoga County public library (on Butternut Ridge Road). The hunter cars should be ready to go at 7:00 PM. The operation is done on a 2 meter simplex frequency. These hunts are loads of fun. If you have never been on a fox hunt, come down to the hunters meeting area and go for a ride with one of the hunters. Afterwards, everyone goes to Frankies Pizza on Great Northern Blvd. for food, drink and good conversation.

WESTLINK VOICE REPORTS NEED VOLUNTEER FINANCIAL HELP

The organization that produces the Westlink Report voice report aired on NCARC informal nets weekly have indicated that they monthly donations of \$500 to help pay the phone bills incurred (which normally run \$750 to \$1,000 monthly) putting that report together. If you would like to assist with a financial donation to help keep those reports available, you can send it to: The Westlink Support Fund, c/o Dr. Norm Chalfin K6PGX, PO Box 463, Pasadena, CA 91102. Please mention that you hear the Westlink Report on the North Coast Amateur Radio Club Informal net in the Cleveland, Ohio area.

CLEVELAND HAMFEST ASSOCIATION

The Cleveland Hamfest Association is not affiliated with any radio or computer club. The individuals who direct and participate in the association are radio amateurs who are dedicated in bringing the best possible hamfest and computer show to the Cleveland area. Already this year, all local area amateur radio clubs have been invited to participate in this years event.

All proceeds from the event are used to finance this event the following year. The dates have been set for this year and they are: Cleveland Hamfest Awards Banquet - September 20 at the Holiday Inn, Middleburg Heights, Ohio, and Cleveland Hamfest and Computer Show - September 21 at Cuyahoga Fairgrounds, Berea, Ohio. This year the Association will reduce the cost of attending the banquet substantially in order to encourage more participation.

The next Cleveland Hamfest Association meeting is March 18 at Denny's Restaurant, W. 150 and I-71 at 7:30 PM (6:30 if you plan to eat). Anyone interested in the planning and helping of the many various functions of the Cleveland Hamfest is welcome to attend.

COMPUTER BBS SERVICE VIA 300 BAUD DDD WITH AMATEUR RADIO HAPPENINGS

The Better Amateur Radio Frequency (BARF CLUB) has open BARF-80 (BBS) to the public under limited conditions. BARF-80 is designed to help promote the uses of all types of computers in the field of Amateur Radio. Parameters: 300 baud, 8 bit, 1 stop bit, no parity.

BARF-80 contains the following Amateur Radio Publications:

1) W1AW Bulletins, 2) The ARRL Newsletters, 3) The W5YI report, and 4) DX Bulletins.

For more information on this service, dial up BARF-80 via your terminal at 671-3161.

(Some information contained in this month's Communicator was obtained thru this service)

ARRL bulletin nr 6 from ARRL headquarters via Bob K8TTZ
Newington CT January 23, 1986

To all radio amateurs

FCC has issued a report and order in PR docket 85 23, adding and deleting amateur bands at GHz frequencies and editing part 97. These changes are effective 0001 UTC March 1, 1986. FCC has added bands at 47.0 to 47.2 GHz, 76 to 81 GHz, 119.98 to 120.02 GHz and 142 to 149 GHz. Removed from the amateur service are the bands at 1215 to 1240 MHz, 48 to 50 GHz, 165 to 170 GHz and 240 to 241 GHz. The amateur satellite service receives new bands at 1260 to 1270 MHz, 2400 to 2450 MHz, 3.40 to 3.41 GHz, 5.65 to 5.67 GHz, 5.83 to 5.85 GHz, 10.45 TO 10.50 GHz, 47.0 to 47.2 GHz, 75.5 to 81.0 GHz, 142 to 149 GHz and 241 to 250 GHz. 160 meter privileges at 1810 to 1850 KHz have been added in ITU region 1. These changes have been made to complete implementation of the final acts of the 1979 World Administrative Radio Conference. QST will carry further details.

ARRL bulletin nr 7 from ARRL headquarters via Bob K8TTZ
Newington CT January 23, 1986

To all radio amateurs

FCC has adopted a report and order in PR docket 85 104, allowing telephony operation at 7075 to 7100 KHz by General, Advanced and amateur Extra licensees south of 20 Degrees North Latitude. The new privileges are expected to have minimal impact on non voice operation in this segment by stations on the U.S. mainland, while granting relief from foreign broadcasting to telephony operation in Caribbean insular areas. This amendment to part 97 is effective 0001 UTC on February 28, 1986.

ARRL bulletin nr 8 from ARRL headquarters via Bob K8TTZ
Newington CT January 23, 1986

To all radio amateurs

FCC has released a report and order in PR docket 85 105 allowing automatic control for digital operation on frequencies 50 MHz and above. Automatic control privileges continue for repeater, auxiliary and beacon operation. The new privileges are effective March 1986. There is a dark lining in this silver cloud. A major goal in the securing of automatic control privileges for digital operation at 50 MHz and above had been the facilitation of Packet Radio Data Transfer, computer to computer communication and packet switching systems. Such operation has continued to be hampered by the requirement that a control operator be present when third party traffic is handled. FCC has provided no relief in this quarter in its report and order in PR docket 85 105. FCC found that neither the speed with which a message is transmitted, nor the operating mode, justified any deviation from the rule requiring that the control operator of an amateur station be present at the control point whenever a station engages in third party traffic. Under these circumstances, the expanded automatic control privileges gained through 85 105 may be a hollow victory. ARRL response to this apparent setback for packet radio is scheduled for discussion at the January ARRL Board meeting, In progress at this writing. Watch W1AW and QST for further details.

HR Satellite bulletin NRL64 from ARRL headquarters via Bob K8TTZ
Newington CT March 5, 1986

To all radio amateurs BT

OSCAR 10 APOGEE TIMES AND LONGITUDES,

MAR 6 0227Z AT 197W 1407Z AT 13W MAR 7 0146Z AT 188W 1326Z AT 3W

OTHER AMATEUR SATELLITE REFERENCE ORBITS,

MAR 6 UO9 0127Z AT 121W UO11 0106Z AT 47W RS5 0044Z AT 12W RS7 0059Z AT 22W

MAR 7 UO9 0102Z AT 115W UO11 0006Z AT 32W RS5 0038Z AT 12W RS7 0049Z AT 20W

THE NEXT TRANSMISSION OF KEPLERIAN DATA WILL BE SATURDAY.

MARCH 8 AND 22, AT 2330 UTC ON BAUDOT AR

CONTEST AND DX INFORMATION de DAVE, KB8TT

Recently received sample copy of "Radiosporting" magazine, published by International Radiosporting Association, POB 65, Don Mills, Ont, Canada M3C 2R6. Has fairly good selection of DX info, although somewhat dated — as well as lots of contest info. The Association also sponsors their own "DXCA" awards program which can be endorsed for up to 8 or more bands. Sample copies are \$2, while a year's subscription has recently been increased to \$20 for 12 issues (ISRA membership included). I don't know that I could recommend the publication at that price, but you can't lose much by trying a sample copy to see if you like it or not.

COMING CONTESTS: The spring contest season is already here. There are still two big ones that you might want to try.

MARCH 29-30 — CQ WW WPX SSB CONTEST May 24-25 — CQ WW WPX CW CONTEST
The ARRL contests are already over. The DX phone test, March 1st and 2nd had lots of activity, probably because of the excellent band conditions. Both 15 and 20 meters were open both days with many strong European and African signals heard. Also heard some activity on 10 meters.

The CQ WPX test rules are in the Jan '86 CQ. This is a popular contest because it offers the opportunity to work lots of different prefixes — many of which can only be heard during the contest. There is also a 30 hour maximum operating time (over a 48-hour period). So you can work the contest without it completely taking up the whole weekend. The contest also has a club competition. Rules for this category are fairly simple — all you have to do is enter your club affiliation on the entry form. A minimum of three club entries are required. Entry forms, dupe sheets, etc., are available from CQ magazine, or you can make up your own forms if you wish.

If you have never worked a contest because you don't think you have enough power or a good antenna, give it a try — you might be surprised to see how easy it can be to work a lot of DX with just a barefoot rig and a simple vertical or dipole.

QSL ROUTES

CN8ES to WA3CNP
CE3DQR to W3HNK
6Y3M to KT3M
CT2CB to W2DUR
HC8X to K8CW
J34UEE to K4UEE
KH0AC to K7ZA
P44B to N2MM
V2ACW to WB4OSN
VP2VCW to N6CW
CY0SAB to VE1ASJ
CT3EU to G3PFS

FM4DU to W3HNK
3Y9WT to LA9WT
5T5SL to DL8DF
VP2MO to WB2LCH
V44KAC to WB2LCH
VP2MU to K1CLN
9U5JB to ON5NT
YN1SI to POB C173, Managua, Nicaragua
VP5Z to KC2RS
J34Z to NF5Z
V47M to N10E
KH6XX to W3HNK

I have recently started a QSL route data base. It presently contains QSL managers or routes for about 1000 calls. I hope to expand this list greatly in the next few weeks. If you need a route for a DX contact — let me know and I'll check to see if I have it. Also, if you have any DX info you would like to pass along, please let me know.

READING THE MAIL

Recently heard W6KPC working BY4AOM on 20M. Couldn't copy the Chinese station, but W6KPC reported using four stacked 6-element yagis up at 63 meters on a freestanding tower. Not too shabby!

C31OF (Andorra) was heard working a big pileup on 3793 (Feb 5, 0061Z).

CE3EEO was heard on 14208 (Feb 4, 1042Z) taking a list for CE9AM (South Shetland).

ZS6USA was heard on 14180 (Jan 19, 1840Z) with strong signal. Operator is Tom, N4NW, who holds first reciprocal license in South Africa. QSLs go to ZS6USA, Delta, PA 17314. Tom hopes to operate from Central Africa (TT, TN, S9, etc.) late this summer.

from the ARRL LETTER, Volume 5, Number 04, February 13, 1986

PRIVACY ACT: ARRL ON CAPITOL HILL

You've heard the rumor that we're going to lose phone patching, or the rumor that even if we're still allowed phone patching we won't be able to listen in to a patch unless we're participating, the rumor that ARRL is asleep at the switch on this one...

Where is all this coming from? Scuttlebutt concerning the Electronic Communications Privacy Act of 1985, that's where. Get the background on the Act (H.R. 3378 and S.1667) from February QST's "Privacy Act - Fact and Fiction." And then get a gander at this. It's the statement by ARRL President Larry Price, W4RA, as presented to the Subcommittee on Courts, Civil Liberties and the Administration of Justice of the Committee of the Judiciary, US House of Representatives, on January 30, 1986. It's not a short peice. But read it word for word. It's the straight dope, carried to the House by those you've entrusted to do such work. Here we go.

"The American Radio Relay League, Incorporated, is the national, non-profit organization representing the interests of the more than 400,000 Amateur Radio operators licensed in the United States by the Federal Communications Commission. The League is appreciative of the opportunity to submit to this Subcommittee the views and concerns of Amateur Radio operators relative to the instant proposed legislation.

"The Amateur Radio Service is allocated various radio frequency bands for local, regional, national and worldwide communications. Such communications promote technical self-training and provide a unique ability to enhance international goodwill. More importantly, however, amateurs are expected to and do provide regular public service and emergency communications. In every major disaster, Amateur Radio operators provide communications where other facilities are destroyed or overtaxed. Most recently, following the earthquake in Mexico City, and the various hurricans along the southern and east coasts of the UNITED States, rescue efforts were coordinated via Amateur Radio and literally tens of thousands of health and welfare messages were exchanged by Amateur Radio links. The Federal Communications Commission has termed such operation a "priceless public benefit." In addition, amateurs have developed networks of computer data banks known as "packet networks" accessed by, and linked together with, Amateur Radio stations. These provide extremely rapid and error-free computer communications.

"Because there are more than one and one-half million radio amateurs operating worldwide, using the same bands of radio frequencies, no one communicating via Amateur Radio or via Amateur Radio frequencies has any reasonable expectation of privacy. A reasonable person would not expect that words uttered over an Amateur Radio frequency would be heard only by those few individuals for whom the communication was specifically intended. Thus, those utilizing Amateur Radio frequencies do not enjoy any expectation of privacy. In 1982, Congress amended then Section 605 (now Section 705) of the Communications Act, 47 U.S.C., so as to clarify the absence of any expectation of privacy in connection with amateur communications and thus the exemption from the reception and disclosure restrictions of 74 U.S.C. Section 705.

"The creation of an expectation of privacy in Amateur Radio is further unnecessary and antithetical to the nature of the Service. The FCC Rules and Regulations governing the Amateur Radio Service (Title 74, CFR Part 97) prohibit business communications [see Section 97.110]; prohibit the transmission of messages for hire, or for material compensation, direct or indirect, paid or promised [see Section 97.112]; and prohibit third-party traffic involving material compensation to any person and traffic consisting of business communications on behalf of any party [see Section 97.114]. The Radio Regulations [Geneva 1982] require that transmissions between Amateur Radio Stations of different countries, when permitted, must be

limited to "messages of a technical nature relating to tests, and to remarks of a personal character for which, by reason of their unimportance, recourse to the public telecommunications service is not justified." Section 97.111 of the FCC Rules reiterates this treaty requirement. There are, of course, exceptions to these prohibitions relating to disaster communications. The instant Bill, however, wisely also contemplates exempting disaster communications from privacy considerations. Accordingly, no legitimate Amateur Radio communications demand the protection afforded by the Privacy Act.

"The instant Bill would, inter alia, vastly expand the present wiretap and oral communication interception prohibitions of Chapter 119 of Title 18, United States Code, to include "electronic communications" generally. The Bill does, however, contain a provision which purportedly exempts Amateur Radio communications from the general prohibition of electronic communication interception. Subsection 2511[2][g] would read, in part, as follows:

[g] It shall not be unlawful under this chapter for any reason —

* * * * *

[ii] to intercept any electronic communication which is transmitted —

* * * * *

[III] by an amateur radio station operator or by a citizens band radio operator; . . .

In addition to the above, there are other provisions within Subsection 2511[2][g] which could be construed to exempt Amateur Radio communications from the proscriptions of the Bill.

"Provided that the specific exemption for Amateur Radio Communications remains in the Bill and that the same is construed and intended to apply to all forms of communication by, between and among licensed amateur stations on frequencies allocated to the Amateur Radio Service, then the League's most basic concerns are essentially satisfied. Discussions with the Subcommittee staff, however, yield concerns that the Bill may be interpreted to preclude or limit the ability of amateurs to monitor those Amateur Radio communications involving telephone interconnection in which one party to the amateur communications speaks and listens through a telephone line "patched" to an Amateur Radio transmitter and receiver. It is via these "phone patches" that amateurs put overseas servicemen in touch with their families, notify police, fire and ambulance services of emergencies, notify the Coast Guard of ships in distress, and initiate and terminate health and welfare message traffic. Phone patching has been an integral part of Amateur Radio emergency and public service communications since at least the Korean War, when amateurs provided communications for wounded military personnel aboard hospital ships in the Far East. The propriety thereof has been acknowledged by the Federal Communications Commission.

"Amateur Radio Communications, including those utilizing telephone interconnect or Amateur Radio computer linked message systems, are certainly not those to which this "privacy of communications" legislation is aimed. It is thus respectfully requested that any report language to accompany this legislation clearly state that all Amateur Radio communications conducted on radio frequencies allocated to the Amateur Radio Service are exempt from the electronic communications intercept prohibitions of the Bill. If in the opinion of the Subcommittee the present language of the Bill does not sufficiently exempt all Amateur Radio communications, then the same should be amended to include, for example, an exemption for electronic communications transmitted "on frequencies allocated to the Amateur Radio Service" or the like.

continued from the ARRL LETTER, Volume 5, Number 04, February 13, 1986

The specific devices, marketed under the brand name of "TV GENIE," were designed to transmit video programming from equipment such as video tape recorders and video camera to TV receivers. The transmitters were being marketed by mail order through advertisements placed in several electronics-oriented consumer publications. In addition to the marketing of such equipment being illegal, use of these low power television transmitters constitutes unlicensed operation and subjects the user to severe penalties. Despite claims to the contrary by some manufacturers, none of the low power television transmitters may be legally sold or used in the United States, regardless of transmitter power.

AUTOMATIC CONTROL FOR DIGITAL COMMUNICATION AT 50 MHZ AND ABOVE — THE PART 97 - CHANGES

In the January 16 Letter, we took our first look at FCC's Report and Order in PR Docket 85-105. Yeah — we were allowed automatic control for digital operation at 50 MHz and above, but the wording of the ruling is such that it's a kick in the teeth for amateur packet radio. ARRL is in the process of seeking reconsideration, as promised. For now, here are the actual Part 97 updates resulting from 85-105. They go into effect March 14, 1986. Section 97.3[m][3] is amended to read:

[3] Automatic control means the use of devices and procedures for control without the control operator being present at the control point when the station is transmitting.

Section 97.79[b] is amended to read:

[b] Every amateur radio station, when transmitting, must have a control operator. The control operator must be present at the control point of the station, except when the station is transmitting under automatic control. The control operator must be a licensed amateur radio operator or permittee designed by the station licensee. The control operator and the station licensee are both responsible for the proper operation of the station. For purposes of the enforcement of the rules of this part, the FCC will presume that the station licensee is the control operator of the station, unless documentation to the contrary exists.

Section 97.69 is amended by adding a new paragraph [d], as follows:

[d] An amateur station may be under automatic control when transmitting digital communications on frequencies 50 MHz and above.

A new Section 97.80 is added, as follows:

Section 97.80 Operation under automatic control.

[a] When under automatic control, devices must be installed and procedures must be implemented which will ensure compliance with the rules when the control operator is not present at the control point of the amateur station.

[b] No amateur station may be operated under automatic control while transmitting third-party traffic.

[c] Automatic control of an amateur station must cease upon notification by the Engineer-in-Charge of a Commission field office that the station is transmitting improperly or causing harmful interference to other stations. Automatic operation must not be resumed without prior approval of the Engineer-in-Charge.

Section 97.114 is amended by adding a new subparagraph [4] to paragraph [b] as follows:

[4] Third-party traffic from an amateur radio station under automatic control.

continued from the ARRL LETTER, Volume 5, Number 04, February 13, 1986

"Finally, it should be noted that amateurs, in performing their public service functions, occasionally utilize communications of other services, such as NOAA weather broadcasts and the like. As such, many amateurs employ "scanner" receivers which are capable of receiving communications of many different radio services (including amateur VHF and UHF communications, typically). The use of, as an example, a multiband radio receiver by a licensed amateur should not subject the amateur to criminal prosecution or harassment in any fashion. Amateurs have legitimate reason to monitor frequencies outside the amateur bands. Many amateurs, for instance, are enrolled in the Military Affiliate Radio System and the Civil Air Patrol, which use frequencies assigned to the Department of Defense. Other are members of the Coast Guard Auxiliary using frequencies in the Maritime Service Allocation. Some 30,000 amateurs are part of SKYWARN, a system operated by the National Weather Service for tracking and warning of severe weather conditions, e.g. tornadoes; at times it may be required that they monitor Government frequencies in connection with their work. In short, there is legitimate reason for amateurs to have equipment which tunes beyond amateur bands. Amateurs must not be exposed to well-meaning but uninformed enforcement activities under the proposed Title 18 revisions. Overall, it would appear that the Bill does not contain sufficient exemptions for legitimate users of the spectrum.

"On behalf of the more than 400,000 Amateur Radio operators of the United States, I thank you very much for the opportunity to participate in this hearing."

FREEDOM TO LISTEN

Freedom to listen to the airwaves is one of our basic traditions of Amateur Radio, dating back to 1912. To augment the format ARRL text of President Price, ARRL Secretary and Washington Area Coordinator Perry Williams, W1UED, presented oral testimony in which he quoted from congressional bills to regulate radio communication three quarters of a century ago: "The bill does not interfere in any way with the hearing of messages by amateurs at all times and places as they may elect." ["Amateur" in that context was generic — it included listeners.]

"This freedom is not just in the abstract," continued Williams to the Subcommittee, "Amateurs NEED it to continue doing their public works. When amateurs help the Forest Service fight brush fires in California, they have to keep one eye on Forest Service frequencies. When servicing as tornado spotters [as 30,000 amateurs do] throughout the mid-section of the country, they monitor weather service circuits.

"Along the coasts of the country, amateurs helping the Coast Guard respond to boats in distress must listen on maritime frequencies. And when we help the Civil Air Patrol, we're monitoring aeronautical circuits. So the need for freedom to listen is still there, and still in the public interest.

"The checks and balances of Section 705 seem to have served well for seven and a half decades. Such a concept is still valid."

INVENTORY OF VIDEO TRANSMITTER VENDOR SEIZED

On January 16, agents of the FCC, the US Marshal and the FBI served a search and seizure warrant on Orion Industries, Inc., of Las Vegas, Nevada. Several thousand dollars' worth of suspected illegal electronic devices and accompanying shipping receipts were removed from the Orion facility.

The warrants were based on evidence developed by the FCC that indicated that Orion had continued to illegally market electronic devices after having received several warnings from the FCC.

Repeater Referendum in Alabama

It's starting to sound like a soap opera. The saga has been going on for exactly a year now! In case you have missed some of the plot...

Episode One: Last March 2nd, the Alabama VHF-UHF Council Board of Directors voted in a 20-kHz band plan for two meter repeaters. There was no meeting of the repeater owners - no opinions asked - no polling. They just did it. A letter was sent to all repeater owners stating that 146-148 MHz repeaters had until July 1st to change frequencies. Those not complying would be considered to have non-coordinated frequencies which would be assigned to another operator. All surrounding states are on the 15 kHz ARRL supported plan.

Episode Two: A meeting of the Alabama Repeater Council was held at the Birmingham Hamfest held last May. The reason given for the abrupt change to 20-kHz was that ACSB (narrowband compandered sideband) is the mode of the future and that "FM would be dead within five years." Alabama would lead the nation by placing narrowband repeaters in between existing 20-kHz spaced channels and the changeover to ACSB would be orderly. Plans were initiated to build an experimental ACSB repeater. The July 1st change to 20-kHz remained in effect much to the irritation of many (but not all) repeater owners.

Episode Three: The 20-kHz band plan went into effect as scheduled. Neighboring states retained the 15-kHz plan and their repeaters were 5 kHz offset by Alabama machines. Tom Ingram, K4OOV, Alabama Repeater Council president acknowledged that there were some problems and that he was working to resolve them. One repeater in Tennessee had a timer fail and locked up/burned out when keyed by an Alabama repeater. Ingram said that the problems were the exception. Meanwhile, repeater owners formed a task force called ACSB - Alabama Committee for Sane Bandplanning - and hired a lawyer.

Episode Four: Meeting in Birmingham on November 16th, an opposing faction of Alabama repeater owners decide they need a new Alabama coordinator. They voted to form the Alabama District of the CVRA - Carolina Virginia Repeater Association - a well known and respected frequency coordinator in the southeast. A petition was filed with CVRA asking that they represent Alabama - or at least a section.

Current Episode: The Alabama VHF-UHF Repeater Council now says they need an election to allow repeater owners to vote on whether they want to retain the 15 kHz or 20 kHz 2-meter spacing or not. "The ballots are in the mail," President Tom Ingram told me. "It's a binding referendum. If the repeater owners want to move back to 15 kHz, we will. Each of the 104 repeaters in the 146 to 148 MHz band - those affected by the new plan - will have a vote."

"I instigated it [the election] after a telephone conversation with the Board of Directors. I wanted to make sure we were fair. Only members of the Alabama Repeater Council can vote. Those owners not a member were sent a ballot and given an opportunity to send in their \$5.00 membership with their ballot. A six member 'blue ribbon commission' headed by ARRL's Section Manager, Joe Smith, Jr., WA4RNP, will count the votes."

Stay tuned.

HR ARRL BULLETIN NR 15.....
FROM ARRL HEADQUARTERS NEWINGTON CT
FEBRUARY 20, 1986 RELAYED BY KB8NW/OBS
TO ALL RADIO AMATEURS BT

A VERY LARGE RUSSIAN SPACECRAFT CALLED MIR WAS LAUNCHED FEBRUARY 19. IT WILL BE A MANNED SPACE STATION FORMING THE CORE OF SOVIET MANNED SPACEFLIGHT FOR THE NEXT SEVERAL YEARS.

A SMALL, MANUALLY DEPLOYED SATELLITE CALLED ISKRA 4 WILL BE ONE OF THE FIRST HAM IN SPACE ACTIVITIES FROM MIR. PREVIOUS ISKRAS CONTAINING AMATEUR RADIO EQUIPMENT WERE MANUALLY EJECTED FROM SALYUT7.

THE FIRST CREW SHOULD REACH MIR IN THE NEXT WEEK OR SO. SEVERAL COSMONAUTS ARE LICENSED AMATEURS AND OPERATION FROM MIR BY THEM IS THOUGHT A LIKELY PROSPECT.

THE 10 METER SIGNALS RECENTLY THOUGHT TO BE FROM RS9 HAVE NOW BEEN POSITIVELY IDENTIFIED AS THOSE OF RSL. RSL CEASED REGULAR OPERATION IN 1980 BUT COMES TO LIFE OCCASIONALLY WHEN CONDITIONS ARE RIGHT. RS9 AND 10 ARE NOW SCHEDULED FOR LAUNCH IN LATE MAY AR

HR ARRL BULLETIN NR 16.....
FROM ARRL HEADQUARTERS NEWINGTON CT
FEBRUARY 21, 1986 RELAYED BY KB8NW/OBS
TO ALL RADIO AMATEURS BT

FCC HAS AMENDED SECTION 97.61A OF THE AMATEUR RULES TO PERMIT F2A EMISSION IN THE 29.5 TO 29.7 MHZ REPEATER SUBBAND.

ARRL HAD PETITIONED FOR THE AMENDMENT SO THAT F2A EMISSION, THE PRIMARY MODE USED TO IDENTIFY BY TELEGRAPHY AMATEUR F3E REPEATERS, WOULD BE AVAILABLE IN THE 10 METER REPEATER SUBBAND. FCC ALSO EDITORIALY AMENDED SECTION 97.61A TO SHOW F2A EMISSION IN OTHER AMATEUR BANDS WHERE REPEATER OPERATION IS AUTHORIZED. THE COMMISSION SAID THE AMENDMENT WAS NECESSARY BECAUSE THE EMISSION DESIGNATOR F2A HAD BEEN OMITTED INADVERTENTLY FROM THOSE BANDS WHEN THE PREVIOUS EMISSION DESIGNATORS WERE CONVERTED TO THE NEW SYSTEM AR

HR ARRL BULLETIN NR 17.....
FROM ARRL HEADQUARTERS NEWINGTON CT
MARCH 5, 1986 RELAYED BY KB8NW/OBS
TO ALL RADIO AMATEURS BT

THE ARRL HAS FILED A PETITION FOR EXTRAORDINARY RELIEF IN DOCKET 85-105, REQUESTING THE FCC TO TEMPORARILY RESCIND ITS PROHIBITION ON THE TRANSMISSION OF THIRD PARTY TRAFFIC BY AMATEUR STATIONS USING DIGITAL COMMUNICATIONS UNDER AUTOMATIC CONTROL ABOVE 50 MHZ, WHILE THE FCC CONSIDERS SOME 19 PETITIONS FOR RECONSIDERATION FILED BY AMATEUR RADIO OPERATORS AND GROUPS, INCLUDING ARRL. IN ITS PETITION, THE LEAGUE STATED THAT THE FCCS PROHIBITION, IF PERMITTED TO TAKE EFFECT, WOULD HAVE A CRIPPLING EFFECT ON THE DEVELOPMENT OF PACKET RADIO.

FOR FURTHER DETAILS, SEE THE ARRL LETTER AND HAPPENINGS, MAY QST AR

FROM COMPUERVE HAMNET SIG

#: 38914 S4/Regulatory Affairs

05-Mar-86 20:45:48

Sb: Privacy Update

Fm: Benn Kobb KCSCW 75676,1705

To: Scott WJVS (SysOp) 76703,407 (X).

Washington, D.C. Mar.5, 1986 -- The Justice Department agreed with the position of the Association of North American Radio Clubs (ANARC) in today's testimony at the fourth and final hearing on the Electronic Communications Privacy Act (HR 3378). A concerned Congressman, however, strongly disagrees with Justice's position and calls for limits on frequency coverage of scanners.

"We think that citizens scanning for recreation purposes should not incur criminal or civil liability," said James Knapp, Deputy Assistant Attorney General of the department's criminal division. "We feel that the bill should contain a provision that a citizen will only incur criminal or civil liability where the citizen both intercepts and divulges the communication under circumstances in which the interception and divulgence are illegal, tortious or for commercial gain."

Severely criticizing Knapp's statement was Rep. Carlos Moorhead of California. "It's very clear that there's all kinds of mischevious things that you can do if you've got one of these scanners," he said.

As examples, he cited that one could hear "family fights, conversations between someone and their girlfriend, inside information that stockbrokers might be giving out on the phone," and, quoting from a Regency ad, "military, FBI, space satellites, police and fire departments, aeronautical bands, immigration, paramedics, amateur radio, Justice Department, State Department, plus thousands of other frequencies."

"These are people's private calls," Moorhead said, "and obviously something should be done to limit the range of these scanners."

"Our bill tries to get at the basic problem, and that is deliberately trying to intercept these calls," Moorhead said, adding that there is "no intent" to affect someone who "happens to get on their band or something, they should just switch to the next band...What concerns me is that you say that you cannot generally try to protect these calls."

The Justice Department had argued that since cellular telephones can be picked up on various types of receivers (as can cordless phones), "the cellular transmission conceivably should be entitled to no more reasonable expectation of privacy than the cordless transmission unless it has been encrypted in some way." This same position was presented by ANARC in its previous testimony before the House subcommittee.

Knapp agreed to look again at the problem of whether, in his words, "we should go that second step and predicate a violation based on the interception itself." In other words, he agreed to examine whether listening to a radio transmission should become a federal crime.

In his written statement, Knapp also said that "consideration should be given to outlawing devices manufactured in the future that are used to intercept cellular telephone conversations, at least where they are primarily designed for that purpose." Moorhead tried but was unable to locate advertising for scanners sold "solely" for the purpose of listening to cellular transmissions.

ANARC submitted a supplemental statement in rebuttal of the previous hearing's testimony of AT&T and Tandy Corp. ANARC said, "AT&T's proposal is stunning in its arrogance; it asserts the right to electronically invade anyone's space, while denying him or her the right to detect the invasion."

A revised draft of HR 3378 is expected soon, with markup of the bill also expected in a few weeks.

HR PROPAGATION FORECAST BULLETIN NR 9.....
FROM ARRL HEADQUARTERS NEWINGTON CT
MARCH 3, 1986 RELAYED BY KB8NW/OBS
TO ALL RADIO AMATEURS

AS YOU MAY HAVE OBSERVED, CONDITIONS ON 14, 21, 24 AND 28 MHZ HAVE BEEN RUNNING BETTER THAN PREDICTED BY THE MONTHLY QST PROPAGATION CHARTS MUCH OF THE TIME SINCE EARLY FEBRUARY. IF YOU COPY SOLAR FLUX INFORMATION FROM WWV DAILY YOU KNOW WHY. THE SOLAR FLUX REACHED 103, 30 POINTS ABOVE THE BASE FIGURE USED FOR THE QST CHARTS, ON FEBRUARY 5 AND IT WAS AT OR ABOVE THE BASE FIGURE MOST OF THE TIME, EXCEPT FOR A FEW DAYS JUST AFTER THE MIDDLE OF FEBRUARY.

THE SOLAR FLUX IS CURRENTLY FOLLOWING ITS FEBRUARY CURVE ALMOST EXACTLY. IT WAS UP TO 89 AT BULLETIN TIME, HIGH ENOUGH TO MAKE THINGS HOT FOR THE ARRL DX CONTEST PHONE WEEKEND, MARCH 1 AND 2. THE FIRST OF TWO ACTIVE AREAS OF THE SUN, RESPONSIBLE FOR THE FEBRUARY PEAK CAME AROUND THE EAST LIMB OF THE SUN AGAIN MARCH 2, STILL LOOKING LIVELY. THE FLUX IS RUNNING HIGHER THAN WOULD BE EXPECTED FROM THAT ONE GROUP, SO THE SECOND MAY BE CONTRIBUTING, AS IT DID LAST MONTH A FEW DAYS BEFORE ITS ACTUAL APPEARANCE AROUND THE EAST EDGE OF THE SOLAR DISK.

FAST RISING SOLAR FLUX CURVES MEAN INCREASED GEOMAGNETIC ACTIVITY, AND INCREASING ABSORPTION OF SIGNAL ENERGY, ESPECIALLY ON HIGH LATITUDE PATHS. SUCH CONDITIONS MAY BE ACCOMPANIED BY INCREASED SIGNAL LEVELS AND HIGHER MUF, ON NORTH SOUTH PATHS AND OTHER LOW LATITUDE OR TRANSEQUATORIAL CIRCUITS. THESE EFFECTS WERE COMMON DURING EARLY FEBRUARY, EVEN TO THE EXTENT OF 50 MHZ OPENINGS TO SOUTH AMERICA, AND MAJOR AURORAL PERIODS ON 144, 220 AND EVEN 432 MHZ. WATCH FOR MORE OF THE SAME AROUND MARCH 8 AND 9. MORE CONVENTIONAL PROPAGATION IS GENERALLY GOOD JUST BEFORE AND JUST AFTER SUCH DISTURBANCES. WATCH MARCH 3 THROUGH 5 AND 10 THROUGH 11. OUR LOWER FREQUENCIES SHOULD BE WORKING WELL AROUND THE MIDDLE OF MARCH AND WHENEVER THE WWV K INDEX IS 2 OR LOWER AND THE SOLAR FLUX IS IN THE LOW 70S OR HIGH 60S.

AMERICAN SUNSPOT NUMBERS FOR FEBRUARY 20 THROUGH 26 WERE BETWEEN 0 AND 6 WITH A MEAN OF 2.6 AR

AMATEUR RADIO CALL SIGNS AS OF MARCH 1, 1986 - EIGHTH DISTRICT de Dirk NO8N

<u>Group A</u>	<u>Group B</u>	<u>Group C</u>	<u>Group D</u>
Extra	Advanced	Tech/Gen	Novice
NQ8P	KE8DN	N8HFU	KA8YZH

KB8CI PACET RADIO MAILBOX COMMANDS, 145.010 Mhz

MailBox commands are usually one letter, but are sometimes 2 letters. A space must separate the command from the message # or callsign. The mailbox will queue valid commands -- be patient!

H (Help) you've probably already found if you're reading this.

X (eXpand) is the next command which new users should try. It spells out the full names of the available commands. Typing X a second time will return to the short menu.

B (Bye) is the graceful way to log-off the system and disconnect.

-- The L, R, K, and S commands are used for mail messages -- NOT disk files!

L (List) is used to list messages in the MailBox.

L by itself lists all messages posted since your last access. If the first # shown in the log-on is larger than the second -- e.g., 127 to 126 are new -- then there have been no new messages since your last connect.

L 70 lists all messages from #70 on.

LM lists all of your messages.

LL 5 lists the last five messages.

LB lists all bulletins.

LT lists all NTS traffic.

L> AA8ZZ lists all messages to AA8ZZ.

L< AA8ZZ lists all messages from AA8ZZ.

L@ N8BMA lists all messages to be forwarded to the N8BMA MailBox.

R (Read) is used to read messages.

R 18 will read message #18.

RM will read ALL your messages.

K (Kill) is used to delete messages that have been read.

Please Kill messages after reading unless they are of general interest. You may only kill messages sent to you or by you.

K 5 will kill message #5.

S (Send) is used to send a message.

When prompted for a title make up a name of 30 characters or less.

Try to keep each line of your message under 80 characters.

Terminate your message by sending a control Z and return.

S AA8ZZ will send a message to AA8ZZ.

SP AA8ZZ will send a private message to AA8ZZ (no one else may read it).

SB ALL will send a bulletin addressed to ALL.

ST AA8ZZ will send NTS traffic to AA8ZZ.

S AA8ZZ @ K3MC will send a message to be forwarded to the K3MC MailBox.

I (Info) gives a brief description of the equipment at KB8CI.

J (Just heard) will list the last 10 calls connected to or heard by the mailbox.

T (Talk to Tom) will let you talk to the SYSOP if you get totally lost.

-- The W, D and U commands are used for disk files -- NOT mail messages!

W (What) will list a directory of the files available on the disks.
Files ending in .TNC are used by the MailBox. CALLS.TNC lists all calls heard since the MailBox was put on the air (10/28/85).

D (Download) will download a copy of a file to the user.
D GATEWAY.DOC will download instructions on using the VHF/HF Gateway.
D BEGINNER.DOC will answer some common questions about packet.
D FORWARD.DOC will provide more information on auto-forwarding mail.

U (Upload) will allow the user to send a file to the MailBox.
These MUST be ASCII files -- not .COM or binary!
Please check with KB8CI before attempting to upload a file to disk.

-- The G comand takes you into the GateWay mode

What is a Gateway? A gateway is a link between tnc's on different frequencies. This means that a user can log-in to the bbs on either the HF or VHF port and have his packets retransmitted on the other port.

The frequencies used by this MailBox/Gateway are 145.01 on the VHF port, and 14.107 during daylight hours and 7.093 during evenings and nights on the HF port.

If the gateway is not active you will be told so. If it is, you will be presented with a new menu.

-- The C,J,R,U, and X commands are used in the GateWay.

C (Connect) is used to connect to a station on the other port.
C KL7ZZZ will attempt to make a connect.
Please do not attempt to use digipeaters when operating HF.
You must specify a call or you will get an error message.
^W (ctrl w) will abort a connect attempt.
If the connect is successful, you will see the message *** LINKED to KL7ZZZ
The other station will see a similar message with your call.
^W is also used to disconnect from a Gateway QSO.

U (Unproto) will send a CQ packet via the other port.

R (Return) will return to the MailBox and exit the Gateway mode.

J (Just heard) will list the last 10 calls heard or connected to the BBS on VHF or HF, just like in the MailBox.

X (eXpand) will toggle the long/short Gateway menu just as in the MailBox.

Please do not use the Gateway frivolously. The HF frequencies are already badly congested.

If you have any questions concerning the commands, please contact Tom KB8CI at 885-5436.



OHIO NOVICE NET

3708 kHz

6:30 PM

EVERYTHING YOU WANTED TO KNOW
ABOUT TRAFFIC HANDLING



Ohio Novice Net is an Ohio Section net in the National Traffic System. Its nominal purpose and major activity is relaying traffic (third party messages) in standard Amateur radiogram form. Its real purpose is providing a medium for learning net operation and traffic handling procedures. ONN provides an outlet for traffic originated by Novice and Technician operators and for delivery of incoming messages. Obviously, those of us who participate find enjoyment and satisfaction in doing so.

Ohio Novice Net meets daily at 6:30 PM local time on or about 3708 kHz. The nominal net speed is 7.5-10 wpm. Slower operators will be accommodated. Whether you are an experienced traffic operator or a tyro, you are welcome on ONN.

Out of state stations are welcome to check into ONN, but such stations can expect to see little activity. Certificates and other recognitions are reserved for Ohio stations.

Following are some (hopefully!) helpful hints and other related information. Don't be overwhelmed; you don't need to know everything for your first QNI!

See you on 3708 kHz, 6:30 tonight!

Mistakes, Errors and Goofs: Everyone makes them. Don't worry about them, but do learn from them. Try to do better the next time.

Information: Information on net organization and operation and traffic handling may be found in the ARRL publications ~~"Operating an Amateur Radio Station"~~, "Public Service Communications", and Operating Aids CD-218 and CD-3 available from ARRL for a 6-1/2 x 9 inch SASE. Postage is about 60 cents. You may also be able to obtain these plus a Net Directory (much useful information) at the ARRL table at any ARRL sanctioned Hamfest. This also gives you the opportunity to meet one or more of your Section Officials. The ARRL Operating Manual at \$5.00 from ARRL or many Ham equipment dealers contains an extensive chapter on traffic operations. Also watch the Public Service section in QST.

Questions: If you don't know, ask! The net manager (NM) or any of the regular stations on the net will be glad to answer your questions. Catch them after the net closes, or ask the Net Control Station (NCS) for "WRDS" (words--a QSO) with your target when you check in.

Zero Beat: Zero beat your signal to the NCS (QNZ). If you are far off frequency, the NCS may advise you QNL (your frequency is low) or QNH (your frequency is high). Or the NCS may not be able to hear you! Take appropriate action. By definition, net frequency is the frequency of the NCS transmissions. If the NCS drifts, you follow. If you are repeatedly informed that you are off-frequency, ask for help. Correct zero beating will also help you in your non-net QSOs.

Check-In: When the NCS transmits "QNI K" or "ONN K", respond with a single letter. When the NCS transmits that letter, respond with your call and traffic list (or QRU). If the NCS does not respond with your letter, try again.

Listing Traffic: When checking in you list traffic as eg "COLUMBUS 1 AA THRU 2 AR"-- that is first destination, then number of messages. All messages with destinations outside Ohio are "THRU". If you have no traffic, check in with "QRU".

Transmitting to The NCS: Do not transmit on net frequency unless directed to do so by the NCS. If you must transmit to the NCS uninvited, send the suffix of your call while the NCS is standing by for check-ins. The NCS will acknowledge and instruct you to go ahead or to standby until business in process is completed. "Helping" the NCS should be avoided unless the NCS asks for help. Then, proceed as for an uninvited transmission. Never repeat anything unless asked.

Identification: The NCS is responsible for identifying on net frequency. It is unnecessary and generally undesirable for you to identify on net frequency except when checking in and out of the net. It is legal for the NCS to dismiss the entire net without the individual stations identifying. This is common on phone nets but rare on CW nets. When stations are sent off net frequency to pass traffic, they must identify as per FCC requirements.

Roll Call Dismissal: The NCS may dismiss you individually or by a roll call dismissal. For the latter, the NCS will transmit something like "QNC QRU QNX QNA (list of calls or suffixes) QNA K". (All stations please copy: the net has no further business for [list of stations] and they are dismissed. Answer [check out] in order.) Stations then check out in the order given by the NCS with no further instruction from the NCS.

Absence of NCS: Occasionally the NCS or an assigned substitute will not appear. If after three minutes (6:33 PM) the net has not been called, it is your job to take over as NCS and call the net. No matter how shakey your performance, no one has any right to complain or criticize: after all, they didn't pick up the session.

Q and QN Signals: It will help if you know as a minimum the meanings of QRU, QRV, QSL, QTC, QNK, QNH, QNL, QNX, QNY, and QNZ. Definitions and explanations available from many sources.

Acknowledging a Call by the NCS: The NCS will call you with the suffix of your call. Acknowledge by sending a "T", "C" (yes), or "HR" (here).

Acknowledging Instructions: Acknowledge instructions by sending a "T", "C", "R" (received) or if appropriate "G" (I am going).

QNY: On CW nets most traffic is passed off net frequency. You will be instructed to move up or down from the net frequency by some number of kilohertz. (eg, "QNY UP 5" meaning move up 5kHz.) The receiving station calls the sending station. If an exchange of traffic is involved, the station named first by the NCS calls. Pick the nearest clear frequency to that designated. After you have completed your exchange, return to net frequency (unless you have been dismissed) and announce your return by sending the suffix of your call. The NCS will acknowledge and most likely ask you to stand by. If you fail to make contact, or are unable to complete transmission/receipt of the message, return to net frequency, announce your presence and inform the NCS of the failure.

Speed: Off net frequency, the speed should be that comfortable for the slower operator. If you find a station sending to you faster than your solid copy speed, ask the operator to QRS. You need feel no embarrassment about this. The Cld should have known better.

Transmitting Traffic: Unless the receiving station sends "QRV" (I am ready to copy), you should ask "QRV?" and begin sending when the receiving station acknowledges with "QRV" OR "K". Begin with "HR", "here (is)", which gives the receiving operator a chance of "get braced". A complete message would be sent as follows. "HR NR 23 R KABABC 6 BROKEN SPRING OH (TIME FILED OPTIONAL) FEB 30 MR MRS J W SMITH AA 1234 NORTH SOUTH ST AA LITTLE HARMONY OH 43001 AA TEL 102 987 3456 BT ARE YOU HAVING FUN QUERY LOVE BT JOHN JR AR N". Notice that the two BTs bracket the text. Lines in the address are separated by AA. Punctuation marks are not used or are spelled if required. X is used as a "stop" or period, "query" in place of a question mark. The final N signifies "no more" (I have no more messages for you). If you have more messages for the receiving station, you would end with "B" followed by the number of messages still to be transmitted. Then standby for the receiving station to QSL or ask for "fills" (repeats of parts of the message he missed).

Fills: If you are receiving traffic and miss part of it, or are doubtful that you have received it correctly, you ask for "fills" or "confirms" (CFM). "WA" word after-- "WA YOU" would receive the reply "YOU HAVING". "WB" word before-- "WB FUN", "HAVING FUN". "BN" between-- "BN YOU ES FUN", "YOU HAVING FUN". If you were not sure you had the addressee's name correctly, you would ask "CFM SMITH" with the reply "CFM" or "C"--or perhaps "N (no) SMYTH".

QSL: Before you QSL (acknowledge receipt of a message), be sure you have all parts of the message correct. Ask for fills or repeats as necessary. You don't have to get it right the first time, but do get it right. Some very strange things happen to Amateur radiograms. Don't be a contributor to these "happenings".

Delivering Messages: The usual delivery mode is by telephone. A generally useful approach is "I have an Amateur radiogram for you from _____. In _____." This is not ominous and yet covers any text. It opens the way for the addressee to ask "what is an Amateur radiogram" and for you to explain a little about the Amateur message service. Don't overlook the opportunity to ask for a reply: you may need to explain that this is a free service.

Records: Keep a record of all third party communications for a period of one year. The record should include the calls of the stations you received the message from and transmitted it to, and the date/time of reception and transmission or delivery.

Activity: You can wait for traffic to appear that you can deliver. You can originate messages for your self or others, which will increase the chance of traffic bound for your delivery area. You can take part in the net organization as a liaison station (BN RX, receiving station for Buckeye Net--requires a General or higher class license) taking traffic from ONN to Buckeye Net, or as NCS (a radiogram to the NM will get you "Instructions for NCS"). Assignments are for one day of the week. You are urged to take an assignment. Neither assignment is difficult. Frequently the NM or NCS will ask for a volunteer for an assignment on a specific session. Look at these requests as opportunities to gain experience without a long term commitment: Volunteer!

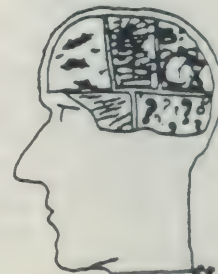
Reporting: All stations active in traffic are urged to report their activity to their SM (Section Manager). This report typically consists of your traffic total for the month (sum of originations, deliveries, messages received and messages sent), but other information concerning your activity may be included: rig, license upgrade, or anything you would like to share or brag about. If you are active (checking into the net regularly) but have handled no traffic, you should still report (zero traffic, not zero activity!). Your report is important to the Section. Reports are generally sent as radiograms, so after your first report you will always have something to report (last month's report!). As your activity increases, you should also report your Public Service Honor Roll (PSHR) points to the SM. The SM must receive your report no later than the 6th of the following month.

Certificates, etc: Certificates are awarded for continuing participation in the net, with endorsements for serving as liaison or NCS. The criterion for receiving a certificate is a record of at least five check-ins per month for three consecutive months. For the endorsements, a record of reasonable reliability is required. Please do not participate in the net solely for the certificate. A combination of ARRL membership, activity on a traffic net, reporting of your activity to the SM, and development or demonstration of traffic handling skills will qualify you for appointment as an Official Relay Station (ORS), with an accompanying certificate.

More?: Oh yes. See the sources referenced above. But this will certainly get you started.

Complaints, Gripes and Criticism: These will receive prompt attention if addressed to: Manager, ONN, c/o Box 88, Moscow, Russia.

Ohio Novice Net
A E Weller, WD8KBW
1325 Cambridge Blvd
Columbus, Oh 43212



ONN MANAGER

Amateur Radio License Examinations

When: Sat, May 10 at 1:00 pm
Where: N. Olmsted High School
5755 Burns, Room 457
Elements: 1A-4B (Novice-Extra)
Walk-ins: Allowed
Talk-in: 145.29 repeater

Needed :

1. ORIGINAL FCC LICENSE, IF ANY
 2. ONE COPY OF YOUR FCC LICENSE, IF ANY
 3. ORIGINAL CERTIFICATE OF SUCCESSFUL COMPLETION OF EXAMINATION (CSCE), IF ANY
 4. ONE COPY OF CSCE, IF ANY
 5. ORIGINAL FCC COMMERCIAL RADIOTELEGRAPH LICENSE, IF ANY (FOR 20 WPM CODE CREDIT)
 6. ONE FORM OF IDENTIFICATION (DRIVERS LICENSE, BIRTH CERTIFICATE, PASSPORT OR A LIBRARY CARD)
 7. \$4.25 CHECK OR M.O. PAYABLE TO: ARRL/VEC
 8. FCC FORM 610 (DATED JUNE 1984 OR LATER)
 9. PENCILS AND/OR PENS
-



FOR MORE INFORMATION, CONTACT :

DIRK OR MARYANN GASTALDO
14527 BENNINGTON DRIVE
STRONGSVILLE, OHIO 44136
238-2807

RICK OR PAULINE WELLS
5955 BURNS ROAD
NORTH OL MSTED, OHIO 44070
779-8999



THE AMERICAN RADIO RELAY LEAGUE, INC.

SECTION MANAGER

QST
OFFICIAL JOURNAL

National Traffic System Ohio Section Traffic Nets

This list is a guide to the traffic nets which serve the Ohio Section. Local nets (primarily meeting on 2 meters) may serve a smaller geographical area of Ohio in your area and will route messages addressed to areas outside of the local net's coverage to one of these nets. Section nets welcome the participation of all Ohio amateurs, and participants in the net will assist you in constructing radiograms in standard form. Feel free to join in!

Detailed information on the National Traffic System (NTS) and message traffic handling can be found in The ARRL Operating Manual (available for \$5.00), and in the Public Service Communications Manual (available free from the ARRL; ask for publication FSD-235). For more information on an individual Ohio net, contact the Net Manager, as given in the table below. For more information on Ohio's traffic handling programs, contact Ohio's Section Traffic Manager (STM) Len Brady KF8J, 2518 Cheltenham Road, Toledo OH 43606.

<u>Net Name (Designator)</u>	<u>Mode</u>	<u>Freq. (MHz)</u>	<u>Time Days (Local)</u>	<u>Net Manager</u>
Ohio Sunrise Slow Net (OSSN)	CW	3.577	M-F 0645 S-Sn 0800	KA8GJV KA8GJV
Buckeye Single Sideband Net (BSSN)	SSB	3.885	Dy 0945	N8AKS
Ohio Single Sideband Net (OSSBN)	SSB	3.9725	Dy 1030	WB8MZZ
Ohio Section ARES Net (OSAN)	SSB	3.875	Sn 1500	WD8MPV *
Ohio Single Sideband Net (OSSBN)	SSB	3.9725	Dy 1615	WB8MZZ
Buckeye Net Radioteletype (BNR)	RTTY	3.605	Dy 1800	W8EK
Ohio Slow Net (OSN)	CW	3.577	Dy 1810	N8AEH
Ohio Novice Net (ONN)	CW	3.708	Dy 1830	WD8KBW
Buckeye Net (Early) (BNE)	CW	3.577	Dy 1845	W8JMD
Ohio Single Sideband Net (OSSBN)	SSB	3.9725	Dy 1845	WB8MZZ
Buckeye Single Sideband Net (BSSN)	SSB	3.885	Dy 1915	N8AKS
Ohio Six Meter Net (O6MN)	SSB	50.16	Dy 2100	WD8CTX
Buckeye Net Late (BNL)	CW	3.577	Dy 2200	W8BO

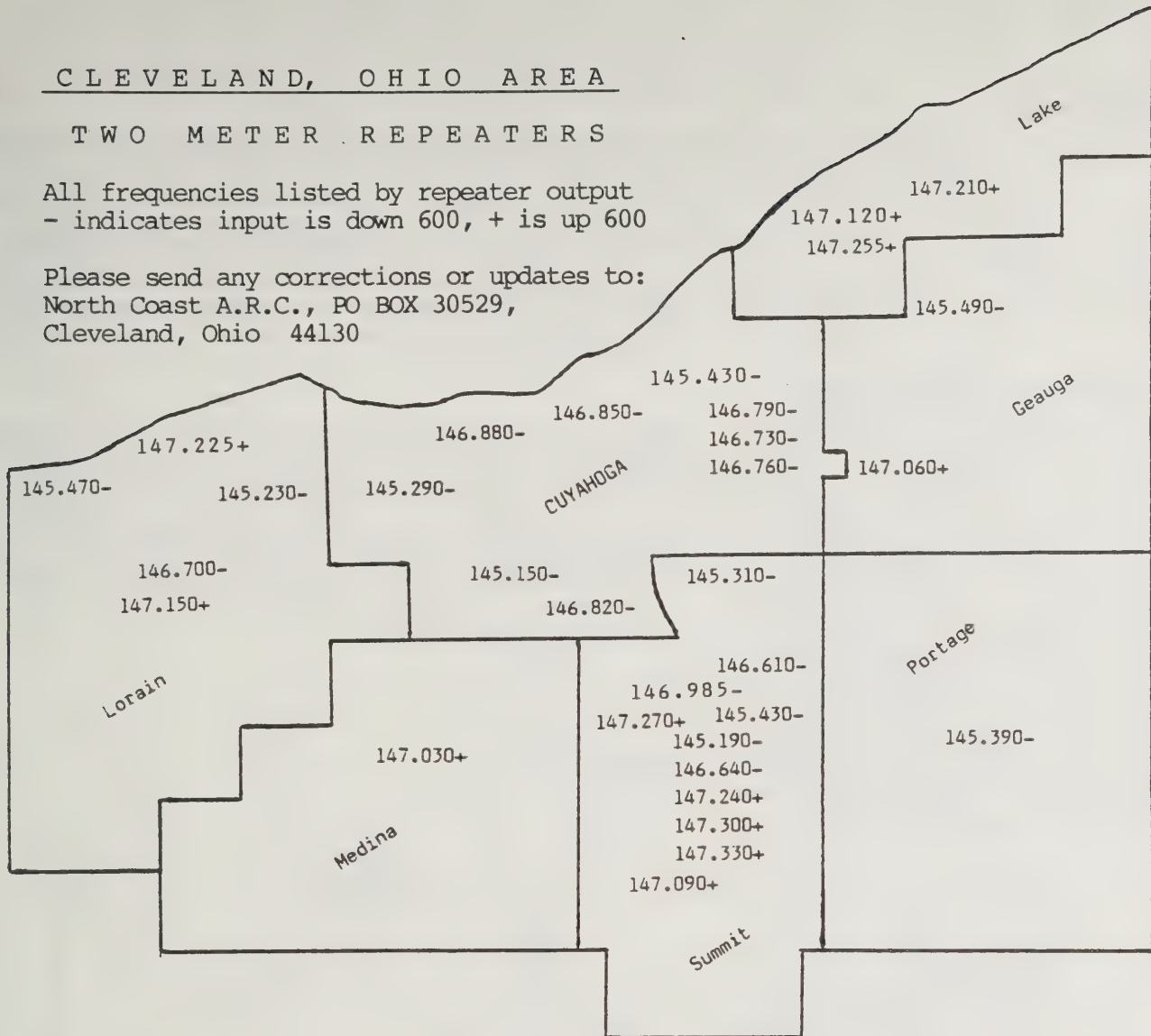
* The Ohio Section ARES Net (OSAN) is not a traffic net. OSAN is an administrative/discussion net which is generally open only to ARRL Section officials and ARES leadership officials (District Emergency Coordinators and Emergency Coordinators). OSAN is an open forum for these ARRL Ohio Section officials to discuss emergency communications planning in Ohio. You are welcome to monitor this net, but you are asked to submit your comments and suggestions through your county's Emergency Coordinator.

CLEVELAND, OHIO AREA

TWO METER REPEATERS

All frequencies listed by repeater output
- indicates input is down 600, + is up 600

Please send any corrections or updates to:
North Coast A.R.C., PO BOX 30529,
Cleveland, Ohio 44130



145.150 North Royalton	- K8KRG NOARS	146.850 Cleveland	- K8WPW NORA
145.190 Akron	- W8UPD NERT	146.880 Lakewood	- WB8CQR LEARA
145.230 North Ridgeville	- K8JK NRRA	146.985 Akron	- WA8UXP GDYR ARC
145.290 North Olmsted	- K8SCI NCARC	147.030 Medina	- K8TV M2G
145.310 Sagamore Hills	- N8CDS	147.060 Chargin Falls	- KA8FEY C V Assoc.
145.390 Ravenna	- KC8VX Portage ARC	147.090 Barberton	- WB8OVQ
145.430 Cleveland Hts.	- KD8IE HERO	147.120 Mentor	- N8CSL
145.470 Vermillion	- WD8DRZ LEARN	147.150 Elyria	- KC8GR LakeCARA
145.490 Chardon	- WB8ATL	147.210 Painesville	- K8BL LorainCARA
146.610 Hudson	- K8BNI	147.225 Lorain	- W8BTD
146.640 Akron	- WB8DJP Comm.ARS	147.240 Cuyahoga Falls	- K8WRP Ind.RA
146.700 Elyria	- K8KRG NOARS	147.255 Kirtland	- WB8PHI
146.730 Warrensville Hts.	- WA8RQY WRRRA	147.270 Akron	- W8VPV C.F. ARC
146.760 Warrensville Hts.	- WB8CQR LEARA	147.300 Akron	- WB8HFZ Comm.ARS
146.790 Shaker Heights	- KD8IE HERO	147.330 Franklin Twp.	- WB8CXO
146.820 Brecksville	- K8AJG Cuy.ARS	147.360 Broadview Hts.	- W8COG N Ohio DX

March 1, 1986

NORTH COAST MAP

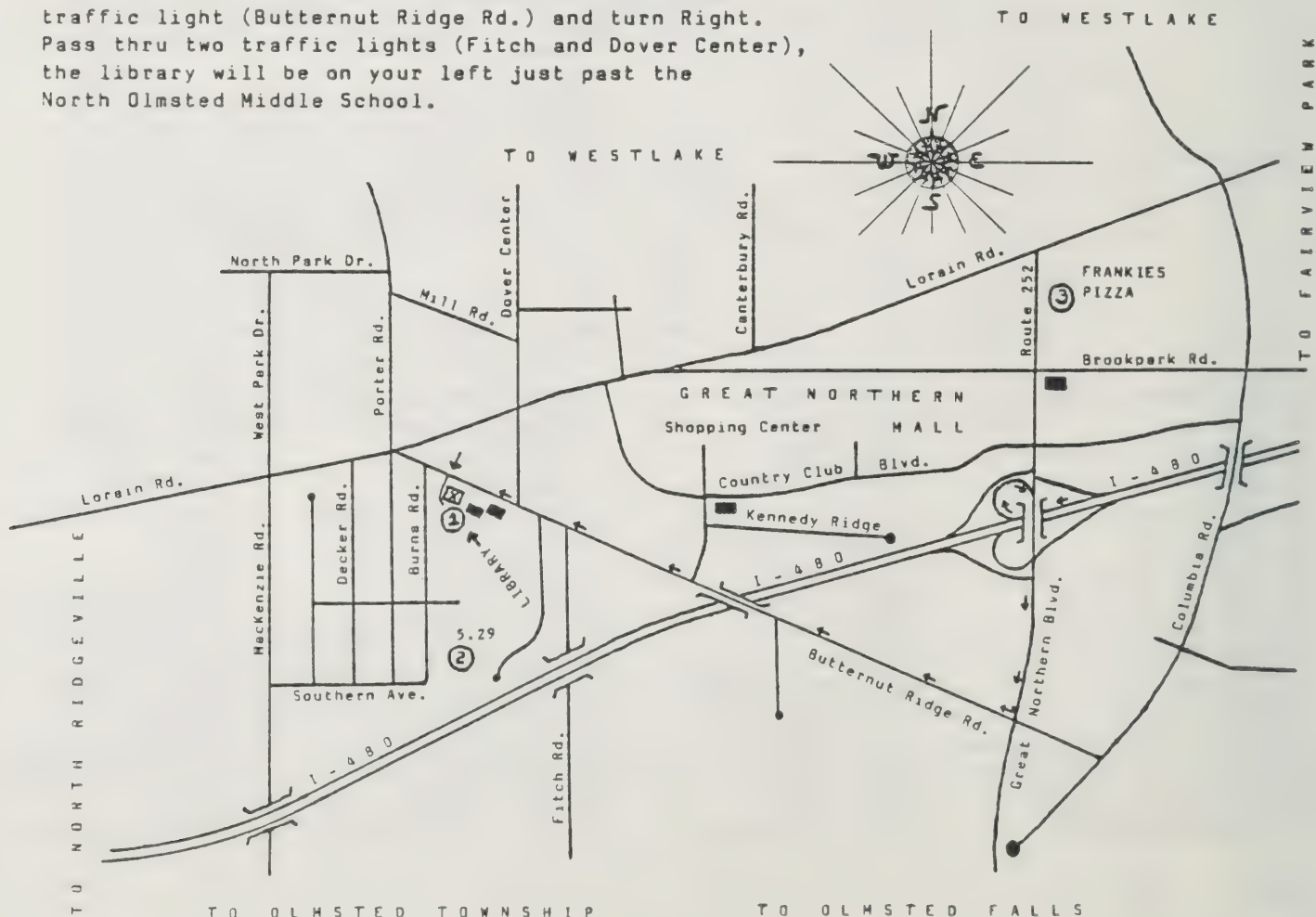
- Location 1. This location is where the North Coast Amateur Radio Club holds its meetings. It is also the location where the Hunters meet for the North Coast Fox Hunts. Cuyahoga County Public Library, 27425 Butternut Ridge Rd., North Olmsted, OH.
- Location 2. Where the North Coast Amateur Radio Club's 145.290 MHZ repeater is located.
- Location 3. This is where all of the participants in North Coast Fox Hunts go after the hunt is over. Here they exchange all the stories involved in trying to get to the fox, and have good times eating great pizza and stuff.

HOW TO GET TO THE MEETING FROM I-71

Take I-480 Westbound. If you are Southbound I-71 (from Cleveland), the exit after W.150th is Airport/I-480 Westbound (LEFT THREE LANES OF I-71). Once you are off of I-71, The right lane leads you to Westbound I-480.

If you are Northbound I-71 (from Strongsville), the exit after Snow Rd. serves both East and Westbound I-480 (RIGHT TWO LANES OF I-71). The left one of the two most right lanes leads you to West I-480.

You will go pass the Grayton, Clague, and Great Northern Exits. Immediately after the Great Northern Exit, get off at the ROUTE 252 SOUTH - OLMSTED FALLS exit. This will take you Southbound on Great Northern Blvd. Go to the first traffic light (Butternut Ridge Rd.) and turn Right. Pass thru two traffic lights (Fitch and Dover Center), the library will be on your left just past the North Olmsted Middle School.



March 9, 1986

North Coast Amateur Radio Club
General Membership Roster

* Denotes Family Member

	<u>Call</u>	<u>Name</u>	<u>Street Address</u>	<u>City and State</u>	<u>Telephone</u>
001.	KB8A	Dan Sarama	15591 Rademaker Blvd.	Brook Park, OH 44142	267-5083
002.	WL7AEC	Tom Tetzlaff	5341 Cornell Ave.	N. Ridgeville, OH 44039	1-327-6020
003.	N9AGC	Greg Smith	5115 Lake Rd., Apt. 1019	Sheffield Lake, OH 44054	1-949-8545
004.	WD8AJF	Dan Wadsworth	11028 Hawke Rd.	Columbia Station, OH 44028	1-748-2816
005.*	KB8AK	Pat Willemin	331 Courtland St.	Elyria, OH 44035	1-324-4574
006.	N8API	George Keco	P.O. Box 442	Brunswick, OH 44212	225-8709
007.	K8ATQ	Rol Randolph	30301 Fairway Blvd.	Willowick, OH 44094	944-2083
008.	N8ATV	Jerry Jarze	4325 Lake Rockwell Rd.	Shalersville, OH 44266	1-297-6251 UL
009.	K8AZ	Tom Lee	7275 Surrey Lane	Chesterland, OH 44026	729-8104
010.	W1BBW	Shelly Shillingburg	667 Washington Ave.	Barberton, OH 44203	1-753-9314
011.	KA8BJA	Frank Stevison	32137 Dickerson Rd.	Willowick, OH 44094	944-4843
012.	W1BKZ	Pete Harmon	35400 Euclid Ave. #A-204	Willoughby, OH 44094	951-9360
013.	N8BO	Charlie Cook	2792 Friar Dr.	Parma, OH 44134	842-4232 UL
014.	WB8BPA	Don Hill	2005 Marlindale Rd.	Cleveland Hts., OH 44118	932-8050
015.	KA8BPU	Ray Becker	5911 Bradley Ave.	Parma, OH 44129	842-7647
016.	N8BTB	Steve Stevison	18001 Westport	Cleveland, OH 44135	267-0182
017.	K8BVI	Art Anzic	28491 Elder Dr.	North Olmsted, OH 44070	235-4077
018.	N8BYW	Bud Riess	317 Sheri Ln.	Brunswick, OH 44212	225-7417
019.	AE8C	Simon Maruszan	4207 Kenmore Ave.	Parma, OH 44134	886-3712
020.	W8CEJ	Mel Hoffman	5579 Nathan Ave.	Parma, OH 44130	885-3303
021.	W8CEM	Chuck Perry	2833 Walter Rd.	North Olmsted, OH 44070	777-3157
022.	W8CHA	Steve Molnar	15721 Westdale Ave.	Cleveland, OH 44135	252-7019
023.	KB8CI	Tom Kryza	10620 Fidelity Ave.	Cleveland, OH 44111	671-7199
024.	N8CKV	Paul Langendorfer	7784 Columbia Rd.	Olmsted Falls, OH 44138	235-1458
025.	KA8CKZ	Bill Jones	11313 Linnet Ave.	Cleveland, OH 44111	941-3850 UL
026.*	KA8CQY	Michelle Lantz	7918 Vesta	Northfield Center, OH 44067	467-5745
027.	KE8CT	Pete Incaini	8175 Royal Ridge Dr.	Parma, OH 44129	885-5436
028.*	KA8CYD	Jennifer Lantz	7918 Vesta	Northfield Center, OH 44067	467-5745
029.	N8DAD	Barbara Ernest	12313 Kensington Ave.	Cleveland, OH 44111	941-2271
030.	K8DBG	Dick W. Stuart	4498 Briarbanks Dr.	Fairview Park, OH 44126	331-8591
031.	N8DBL	Tom Chaney	7030 Westview Dr.	Brecksville, OH 44141	526-7155
032.	K8DBN	Bill Rieke	1440 E. Melrose	Westlake, OH 44145	333-6644
033.	K8DDY	Bill Schreiber	6 Sunrise Blvd.	Olmsted Twp., OH 44138	235-3913
034.*	KE8DJ	Diane Willemin	331 Courtland St.	Elyria, OH 44035	1-324-4574
035.	N8DMK	Russ Pratley	12711 Broadway	Garfield Hts., OH 44125	- UL
036.	K8DTS	Bob Leskovec	25884 Highland Rd.	Richmond Hts., OH 44143	- UL
037.	WB8DTY	Tommie Murray	P.O. Box 08097	Cleveland, OH 44108	486-0033
038.	WA8DYL	Eugene Likes	4162 Canterbury Rd.	North Olmsted, OH 44070	734-7648 UL
039.	KB8DZ	Joe Noga	36171 Kinzel Rd.	Avon, OH 44011	1-934-6291
040.	N8DZO	Jack Zigon	P.O. Box 347001	Parma, OH 44134	351-2427
041.	N8EBA	Russ Rowe	P.O. Box 336	N. Ridgeville, OH 44039	- UL
042.	W8EFW	Paul Cornell	1340 Ford Rd.	Lyndhurst, OH 44124	442-7024
043.	N8EIJ	Ken Poling	4707 Martin Dr.	North Olmsted, OH 44070	777-8785
044.	W8EPM	Joe Rozek	28405 North Park Dr.	North Olmsted, OH 44070	777-5574
045.	KD8EQ	Dick S. Stuart	26921 Elizabeth Ln.	Olmsted Twp., OH 44138	235-2323
046.	WA8ERA	Lee Georgia	5106 Montauk Ave.	Parma, OH 44134	888-5286 UL
047.	W8ETC	Len Hettinger	3087 W. 115th St.	Cleveland, OH 44111	251-5936
048.	N8ETP	Tom Kopcak	1497 Canterbury Rd.	Westlake, OH 44145	871-6181 UL
049.	N8ETQ	Dan Harlan	3418 Stanfield Dr.	Parma, OH 44134	845-5442
050.	N8ETW	Ernie Nagy	35892 Poplar St.	North Ridgeville, OH 44039	1-327-6849
051.	N8ETY	Dave Kifer	3717 Woodway Ave.	Parma, OH 44134	459-0676
052.*	N8ETZ	Mary Nagy	35892 Poplar St.	North Ridgeville, OH 44039	1-327-6849

053.	KABEVS	Charlie Stien	4652 East 85th St.	Garfield Hts., OH 44125	-	UL
054.	KDBEX	Tom Rudman	32651 Redwood Blvd.	Avon Lake, OH 44012	1-933-8753	
055.	KC8F	Heinz Wimmer	26976 Fairfax Lane	North Olmsted, OH 44070	734-6890	
056.	W8FAZ	Joe Zelle	1227 Addison Rd.	Cleveland, OH 44103	431-6437	
057.	N8FCX	Ron Packard	4931 Wake Robin Rd.	Mentor, OH 44060	1-257-2541	
058.	N8FDY	Tom Wilkinson	1337 Sloane Ave.	Lakewood, OH 44107	521-9519	
059.	N8FEG	Pete Gramuglia	6380 Elmdale	Brook Park, OH 44142	676-9027	
060.	N8FGR	Wayne Pipoly	8775 Contee Rd., Apt 203	Laurel, MD 20708	1-301-490-9708	
061.	N8FIL	Rich James	7620 Crestwood Ln.	Northfield Center, OH 44067	467-0493	UL
062.	N8FKS	Don Summer	26915 Westwood Ln.	Olmsted Twp., OH 44138	235-6295	
063.	N8FKT	Bob Bassett	P.O. Box 07128	Lakewood, OH 44107	228-3788	UL
064.*	KABFOE	Pauline Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999	
065.	WA8FOV	Ted Ermi	25895 John Rd.	Olmsted Twp., OH 44138	235-2698	
066.	N8FQQ	Tom Adams	11140 Aaron Dr.	Parma, OH 44130	885-1104	
067.	N8GJR	Jim Nestor	39114 Route 303	Grafton, OH 44044	1-355-8697	
068.	W8GNB	Ed Ehrbar	4307 W. 137 St.	Cleveland, OH 44135	251-8234	
069.	N8GNJ	Steve K. Stroh	917 Salem Ave.	Elyria, OH 44035	1-365-2793	
070.*	N8GNK	Nancy Rowe	P.O. Box 336	N. Ridgeville, OH 44039	-	UL
071.	N8GNL	John Jailer	5685 Hickory Trail	North Ridgeville, OH 44039	1-327-7088	
072.	WA8GZC	Marion Hill	8384 Barton Dr.	Strongsville, OH 44136	238-1152	
073.	N8HAD	Skip Hockensmith	6229 Elmdale	Brook Park, OH 44142	267-9374	
074.	N8HBW	Ron Sauer	23260 Cannon Rd.	Bedford Hts., OH 44146	439-1534	
075.	W3IGI	Bill Spring	389 Brantley Ln.	Brunswick, OH 44212	273-5723	
076.	KABIMU	Tony Romano	4837 E. 84th St.	Garfield Hts., OH 44125	271-6954	
077.	WD8INK	Ken Wiggenhorn	2134 Brown Rd.	Lakewood, OH 44107	221-9954	
078.	WD8INO	Steve Ferraro Jr.	3417 Marmore Ave.	Parma, OH 44134	741-2547	
079.	W8IO	Robert Allen	23305 Westchester Dr.	North Olmsted, OH 44070	734-0570	
080.	WD8IQJ	John McKenna	3105 Riverside Ave.	Cleveland, OH 44109	398-9810	
081.	WD8IQO	Milt Kujawinski	4235 W. 50th St.	Cleveland, OH 44144	749-5519	
082.	WD8IRG	Van Winkle	16417 Shelby Dr.	Brook Park, OH 44142	267-9063	
083.	WD8ISB	Dick Dell	8085 Wren Dr.	Macedonia, OH 44056	467-7733	UL
084.	KROJ	Jeff Vecbastiks	3289 W. 41 St.	Cleveland, OH 44109	631-6087	UL
085.	N6JAM	Ron Lew	512 Frebisky Rd.	Richmond Hts., OH 44143	486-7027	
086.	WD8JMM	Alex Manuk	3125 West 11th Place	Cleveland, OH 44109	-	
087.	KD8JQ	Don Jason	715 Twin Oaks Blvd.	Medina, OH 44256	1-723-5492	
088.	W8KGA	Larry J. Stacik	12503 Carrington Ave.	Cleveland, OH 44135	941-4711	
089.	WD8KHU	Mark Woodworth	20239 Bonnie Bank Blvd.	Rocky River, OH 44116	331-6347	
090.	KC8KI	John Baddour	2801 Clague Rd.	North Olmsted, OH 44070	734-3778	
091.*	WD8KTC	Marie Johnson	6504 Edgehurst Dr.	Brook Park, OH 44142	676-5342	
092.	KABLIH	Karen Counter	22420 Morton Ave. Apt #4	Fairview Park, OH 44126	734-3408	
093.	WD8LRZ	Larry Lanning	3528 Monte Vista Dr.	Brunswick, OH 44212	225-4607	
094.	AI8M	Dave Willemín	331 Courtland St.	Elyria, OH 44035	1-324-4574	
095.	N08M	Steve Wolf	27132 Butternut Ridge Rd.	North Olmsted, OH 44070	777-1177	
096.	K8MDC	Fred Jones	8174 Olmway Ave.	Olmsted Falls, OH 44138	235-3260	
097.	K8MGH	Lou Pierce	6344 Ridgeview Blvd.	N. Ridgeville, OH 44039	1-327-2206	
098.	WD8MHL	Ray G. Maskow	10401 Linnet Ave.	Cleveland, OH 44111	671-0317	
099.	WD8MHR	Eric Benedict	6423 Ridge Rd.	Parma, OH 44129	888-6435	
100.	K8MO	Jeff Safran	17781 Walnut Dr.	Strongsville, OH 44136	572-3509	UL
101.	W8MW	Maynard Weston	4564 Park Edge Dr.	Fairview Park, OH 44126	734-4260	
102.	N08N	Dirk Gastaldo	14527 Bennington Dr.	Strongsville, OH 44136	238-2807	
103.	WB8NAQ	William Reed	3334 Brookdale Ave.	Parma, OH 44134	741-7071	UL
104.	WA8NXT	Ferd Nye Jr.	31497 Hilliard Blvd.	Westlake, OH 44145	871-8098	
105.	WB8NXT	Neil Johnson	6504 Edgehurst Dr.	Brook Park, OH 44142	676-5342	
106.	WB80GN	Jack Skinner	261 E. 238th St.	Euclid, OH 44123	731-9551	
107.	WD80MW	Glenn Christman	2311 Searsdale Ave.	Cleveland, OH 44109	661-3656	
108.	K80PV	George Hodapp	13101 Yager Dr.	Strongsville, OH 44136	238-7663	

109.	WD80YO	Dave Ernest	4223 Columbia Rd.	North Olmsted, OH 44070	777-3694
110.	WD8PBQ	Jay Rezabek	882 Wimbleton Dr.	Medina, OH 44256	1-725-2171
111.	KA8PEF	Joe Liszeski	8233 Avon Belden Rd.	N. Ridgeville, OH 44039	1-327-7938 UL
112.	W8PEV	Jim Malone	31235 Avon Rd.	Westlake, OH 44145	835-1206 UL
113.	K8PPZ	Tom Wisnor	27869 Sherwood Dr.	Westlake, OH, OH 44145	835-2288
114.	WD8QAC	Al Dalglish	26919 Westwood Ln.	Olmsted Falls, OH 44138	235-3771
115.	K8QNK	Dick Scheuering	4867 Summerlane	Brooklyn, OH 44144	741-7121
116.	KD8QY	George Bringhurst	9239 Elsmere Dr.	Parma, OH 44130	845-5231
117.	K8RBV	Bob Morgan	376 East 329th St.	Willowick, OH 44094	943-6374
118.	WB8RGK	Tim O'Reilly	5515 Thornton Dr.	Parma, OH 44129	888-5618
119.	K8RSH	Chuck Early	5943 Burns Rd.	North Olmsted, OH 44070	777-1595
120.	WD8RZG	Don Winner	8927 Torrence Ave.	Brooklyn, OH 44144	749-6594
121.	K8RZP	John Pastor	322 Berea St.	Berea, OH 44017	234-4299
122.	K8SCI	Rick Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999
123.	WD8SDP	Lin Shaw	7780 Lewis Rd.	Olmsted Falls, OH 44138	235-3912
124.*	KA8SLX	Chris Tetzlaff	5341 Cornell Ave.	N. Ridgeville, OH 44039	1-327-6020
125.	WA8SNI	Charlie Kontras	13709 Wainstead Ave.	Cleveland, OH 44111	252-2367
126.*	KA8SNM	Cheri Collins	35400 Euclid Ave. #A-204	Willoughby, OH 44094	951-9360
127.	K9SSL	Mike Walker	1204 Tulip Ct.	Brunswick, OH 44212	225-1744 UL
128.	KA8SYT	John Sopko	2100 Hancock St.	Lorain, OH 44052	1-288-0390 UL
129.*	KA8THY	Edna Lorenz	P O Box 147	Clinton, OH 44216	1-882-3315
130.*	K8TKQ	Howard Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999
131.	KA8TNE	Paul Tokar	1503 Wyandotte Ave.	Lakewood, OH 44107	221-3266
132.	KA8TQR	Dennis Minnick	1700 Brookdale Ave.	Parma, OH 44134	749-2365
133.	KB8TT	Dave Curry	887 E. 331st St.	Eastlake, OH 44094	942-5030 UL
134.	K8TTZ	Bob Mills	6716 Bonna Ave.	Cleveland, OH 44103	431-9492
135.	KA8TWK	Kenneth Korber	4120 West 227 St.	Fairview Park, OH 44126	734-5110 UL
136.	WB8UDA	Fred S. Szabo	6142 Eavenson Blvd.	Brook Park, OH 44142	433-1240
137.	K8UHX	J D Csicsila	146 River Rd.	Hinckley, OH 44233	278-7904
138.	K8UID	Ron Diehl	40171 Jones Rd.	Wellington, OH 44090	1-647-3664
139.	WB8UPA	Russ Saepic	1861 Frost Circle	Brunswick, OH 44212	- UL
140.	K8UTE	Basil L. Andrejko	19307 Maplewood St.	Cleveland, OH 44135	267-3433
141.	KA8UUX	Dick Foster	6817 Franke Rd.	Middleburg Hts., OH 44130	676-0165
142.	KA8VDU	Al Prinz	1743 Lares Lane	Brunswick, OH 44212	273-1914
143.	KA8VIC	Tim Hitesman	356 Bradley Rd.	Bay Village, OH 44140	871-3055 UL
144.	K8VJG	Ron Borkey Sr.	10699 Ridge Rd.	North Royalton, OH 44133	237-6718
145.	KA8WAR	Joe Kluha	12954 Sprague Rd.	Parma, OH 44130	888-4617
146.	KA8WCK	Roy Glassco	4503 Azalea Lane	North Olmsted, OH 44070	779-1262
147.	KA8WQN	Evelyn Godwin	882 Oelley Dr.	Cleveland, OH 44109	351-2463
148.	KA8WRZ	Larry E. Tews	3341 W. 131 St.	Cleveland, OH 44111	476-8164
149.	WB8WR	Roger Burgess	441 Bradley Rd.	Bay Village, OH 44140	835-8739
150.	WB8WYK	Mas Iyama	5769 Turney Rd.	Garfield Hts., OH 44125	662-0731 UL
151.	AE8X	Jim Hartland	6429 Ridge Rd.	Parma, OH 44129	842-4137
152.	AJ8Y	Dennis Chaney	27697 Bryandale	Westlake, OH 44145	871-4685
153.	AK8Y	Mike Cauley	1462 S. Carpenter Apt 160	Brunswick, OH 44212	225-7438
154.	KA8Y	Shirley Lantz	7918 Vesta	Northfield Center, OH 44067	467-5745
155.	KW9Y	Don Hilderman	596 Canterbury Rd.	Bay Village, OH 44140	871-6024
156.*	KA8YEA	Eileen Neubeck	3289 W. 41 St.	Cleveland, OH 44109	631-6087 UL
157.	KA8YHR	Rob Szule	6032 Porter Rd.	North Olmsted, OH 44070	734-5963
158.*	KD8YM	Mike Willemin	331 Courtland St.	Elyria, OH 44035	1-324-4574
159.	WB8YNX	Clyde Lorenz	P O Box 147	Clinton, OH 44216	1-882-3315
160.*	KA8YQM	Maryann Gastaldo	14527 Bennington Dr.	Strongsville, OH 44136	238-2807
161.	NB8Z	Larry Ferrone	2531 Canterbury Rd.	Westlake, OH 44145	835-9428
162.	KB8ZA	Jim Baird	3110 Klusner Ave.	Parma, OH 44134	843-2442
163.	KD8ZK	Ed Zorn	4878 Autumn Ln.	Brooklyn, OH 44144	741-9174
164.	WB8ZQH	Dan Dalessandro	P.O. Box 92	North Olmsted, OH 44070	243-4550

North Coast Amateur Radio Club - MINI ROSTER - March 9, 1986

CALL	NAME	CALL	NAME	CALL	NAME	CALL	NAME
KB8-A	DAN	W8-EFW	PAUL	WD8-ISB	DICK	KA8-SLX	CHRIS
WL7-AEC	TOM	N8-EIJ	KEN	KR0-J	JEFF	WA8-SNI	CHARLIE
N9-AGC	GREG	W8-EPM	JOE	N6-JAM	RON	KA8-SNM	CHERI
WD8-AJF	DAN	KD8-EQ	DICK	WD8-JMM	AL	K9-SSL	MIKE
KB8-AK	PAT	WA8-ERA	LEE	KD8-JQ	DON	KA8-SYT	JOHN
N8-API	GEORGE	W8-ETC	LEN	W8-KGA	LARRY	KA8-THY	EDNA
K8-ATQ	ROL	N8-ETP	TOM	WD8-KHU	MARK	K8-TKQ	HOWARD
N8-ATV	JERRY	N8-ETQ	DAN	KC8-KI	JOHN	KA8-TNE	PAUL
K8-AZ	TOM	N8-ETW	ERNIE	WD8-KTC	MARIE	KA8-TQR	DENNIS
W1-BBW	SHELLY	N8-ETY	DAVE	KA8-LIH	KAREN	KB8-TT	DAVE
KA8-BJA	FRANK	N8-ETZ	MARY	WD8-LRZ	LARRY	K8-TTZ	BOB
W1-BKZ	PETE	KA8-EVS	CHARLIE	AI8-M	DAVE	KA8-TWK	KEN
N8-BO	CHARLIE	KD8-EX	TOM	NO8-M	STEVE	WB8-UDA	FRED
WB8-BPA	DON	KC8-F	HEINZ	K8-MDC	FRED	K8-UHX	J D
KA8-BPU	RAY	W8-FAZ	JOE	K8-MGH	LOU	K8-UID	RON
N8-BTB	STEVE	N8-FCX	RON	WD8-MHL	RAY	WB8-UPA	RUSS
K8-BVI	ART	N8-FDY	TOM	WD8-MHR	ERIC	K8-UTE	BASIL
N8-BYW	BUD	N8-FEG	PETE	K8-MO	JEFF	KA8-UUX	DICK
AE8-C	SI	N8-FGR	WAYNE	W8-MW	MAYNARD	KA8-VDU	AL
W8-CEJ	MEL	N8-FIL	RICH	NO8-N	DIRK	KA8-VIC	TIM
W8-CEM	CHUCK	N8-FKS	DON	WB8-NAQ	BILL	K8-VJG	RON
W8-CHA	STEVE	N8-FKT	BOB	WA8-NXT	FERD	KA8-WAR	JOE
KB8-CI	TOM	KA8-FOE	PAULINE	WB8-NXT	NEIL	KA8-WCK	ROY
N8-CKV	PAUL	WA8-FOV	TED	WB8-OGN	JACK	KA8-WQM	EVELYN
KA8-CKZ	BILL	N8-FQQ	TOM	WD8-OMW	GLENN	KA8-WRZ	LARRY
KA8-CQY	MICHELLE	N8-GJR	JIM	K8-OPV	GEORGE	W8-WXR	ROGER
KE8-CT	PETE	W8-GNB	EDDIE	WD8-OYO	DAVE	W8-WYK	MAS
KA8-CYD	JENNIFER	N8-GNJ	STEVE	WD8-PBQ	JAY	AE8-X	JIM
N8-DAD	BARB	N8-GNK	NANCY	KA8-PEF	JOE	AJ8-Y	DENNIS
K8-DBG	DICK	N8-GNL	JOHN	W8-PEV	JIM	AK8-Y	MIKE
N8-DBL	TOM	WA8-GZC	MARION	K8-PPZ	TOM	KA8-Y	SHIRLEY
K8-DBN	BILL	N8-HAD	SKIP	WD8-QAC	AL	KW9-Y	DON
K8-DDY	BILL	N8-HBW	RON	K8-QNK	DICK	KA8-YEA	EILEEN
KE8-DJ	DIANE	W3-IGI	BILL	KD8-QY	GEORGE	KA8-YHR	ROB
N8-DMK	RUSS	KA8-IMU	TONY	K8-RBV	BOB	KD8-YM	MIKE
K8-DTS	BOB	WD8-INK	KEN	WB8-RGK	TIM	WB8-YNX	CLYDE
WB8-DTY	TOMMIE	WD8-INO	STEVE	K8-RSH	CHUCK	KA8-YQM	MARYANN
WA8-DYL	GENE	W8-IO	BOB	WD8-RZG	DON	NB8-Z	LARRY
KB8-DZ	JOE	WD8-IQJ	JOHN	K8-RZP	JOHN	KB8-ZA	JIM
N8-DZO	JACK	WD8-IQO	MILT	K8-SCI	RICK	KD8-ZK	ED
N8-EBA	RUSS	WD8-IRG	VAN	WD8-SDP	LIN	WB8-ZQH	DAN

VOLUNTEER PAGE

Please send to: NORTH COAST A.R.C., P.O. BOX 30529, CLEVELAND, OHIO 44130

NCARC, PO BOX 30529, CLEVELAND, OH 44130

FIELD DAY JUNE 28 & 29, 1986

NAME _____ CALL _____ CLASS _____ PHONE _____

MAIN INTEREST: SET-UP OPERATE LIST AVAILABLE EQUIP/COAX/ANT/SUPPLIES

TEAR-DOWN CW _____

LOG PHONE _____

COOK RTTY _____

SATURDAY HF _____

SUNDAY VHF/UHF _____

OPEN OSCAR _____

OTHER COMMENTS: _____

NCARC, PO BOX 30529, CLEVELAND, OH 44130

NORTH COAST AMATEUR RADIO EMERGENCY SERVICE (NCARES) EMERGENCY COMMUNICATIONS VOLUNTEER

NAME _____ CALL _____ CLASS _____

PHONE NUMBERS: RES. _____ WORK _____ EXTENSION _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

HOURS/DAYS AVAILABLE: WEEKENDS _____ WEEKDAYS _____

2 METER EQUIPMENT: MOBILE _____ HT _____ SPARE BATT? _____

HF CAPABILITIES: _____ HF MOBILE? _____

EMERGENCY POWER FROM HOME? _____ EXPLAIN: _____

NCARC, PO BOX 30529, CLEVELAND, OH 44130

EDUCATION: VOLUNTEER EXAMINER CODE INSTRUCTOR THEORY INSTRUCTOR

EXAM HELPER CODE/HELPER THEORY/HELPER

NAME _____ CALL _____ CLASS _____

ADDRESS _____ CITY _____ ZIP _____ PHONE _____

PREFERENCE: WESTERN CUYAHOGA COUNTY EASTERN CUYAHOGA COUNTY EITHER

WEEKDAY NIGHTS AVAILABLE: _____ WEEKEND AVAILABILITY _____

YOUR MAIN INTEREST: _____

FIRST CLASS

P.O. Box 30529
Cleveland, Ohio 44130

EMERGENCY
COMMUNICATIONS
PUBLIC SERVICE
EXPERIMENTATION
INFORMATION
EDUCATION

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Club

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